STIC-Biotech/ChemLib

From: Sent:

Chan, Christina

To: Subject: Tuesday, September 17, 2002 8:22 AM Kemmerer, Elizabeth; STIC-Biotech/ChemLib

RE: rush seg search reg

Please rush. Thanks Chris

Chris Chan TC 1600 New Hire Training Coordinator and SPE, 1644 CM 1, Room 9B19 308-3973

----Original Message-----

From: Kemmerer, Elizabeth

Sent: Tuesday, September 17, 2002 8:21 AM Chan, Christina

Subject:

rush seg search reg

Chris-

Please approve the following rush request for a date case that Bonnie just transferred to me. Thanks.

STIC:

Please rush a search of SEQ ID NO: 69 for 09/944396. Thanks.

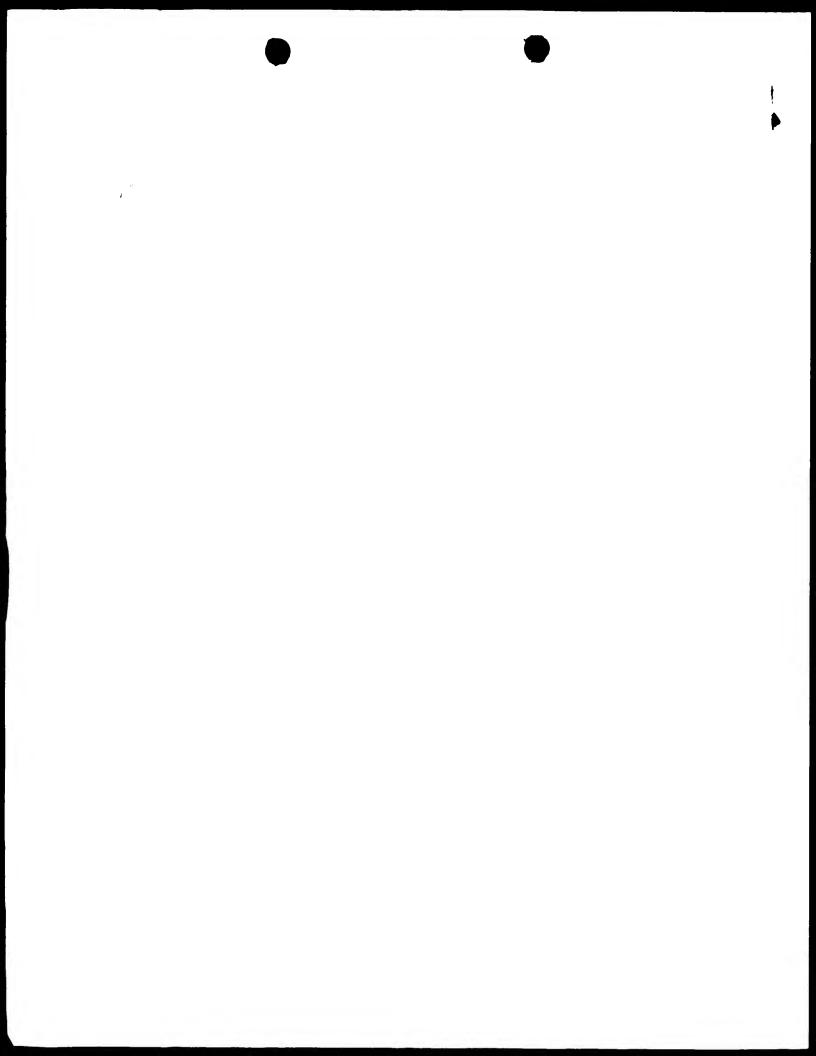
Elizabeth (Betsy) Kemmerer Art Unit 1646 308-2673 CM1-10B17 Mailbox: 10D19

Searcher: f. Schriber Phone: 368-4292Location: Date Picked Up: _____9117 Date Completed: _____?[(§ Searcher Prep/Review: 8 Clerical: _

Online time: _____

TYPE OF SEARCH:
NA Sequences:
AA Sequences:/
Structures:
Bibliographic:
Litigation:
Full text:
Patent Family:
Other

VENDOR/COST (where applic.) STN:
DIALOG:
Questel/Orbit:
DRLink:
Lexis/Nexis:
Sequence Sys.: (capage)
WWW/Internet:
Other (specify):



```
Gentlore version 4.5 Capyright (c) 1993 - 2000 Compugen Ltd.
```

OM protein – protein search, using sw model

September 17, 2002, 09-20-43 , Search time 34.13 Secunds (without alluments) 1946.151 Million cell updates/sec

69-966-846-60-50 Perfect score:

....PIMGFPGPGIQSPIHAKPYI 598

1 MCSPVPILLFLLLLALGPG. Sequence:

BLOSUM62 Gapop 10:0 . Gapext 0.5 Scoring table:

tal number of hits satisfying chosen parameters: 247574 seqs, 111073796 residues Searched:

Minimum DB seq length: 0 Maximum DP seq length: 2500000000

Maximum Match 100% Post-processing: Minimum Match 08

Listing first 45 summaries

Datahase :

A_Seneseq_032802:*

STest (and large) he detected processing early, AAL 86 JAL 18 JAL

Pred. No. is the number of results predicted by those the form score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		æ				
Result		Query				
. E	Score	Match	e Match Length DB	CB	g	Description
-	3135	100 n	ω Σ	ÚĈ.	AAY06484	Human tumour-assoc
2	3135	100.0		2	AAY93691	Amino acid sequenc
æ	3135	100.0		5	AAP01 122	Human PRO347 relyn
4	31.26	69.7	598	50	AAY17831	Human PRO357 profe
S	3083.5			C)	AAB07428	Amino acid sequenc
9	3083.5			22	AAB87533	Human PRO1282, No
7	3081.5			· ·	AABGELEG	Human PROLESS (5MC
8	3078.5			C4	AAB84689	Amine acid sequenc
J`	2935			2	AAB38323	Human secreted pro
10	9867			51	AAB38400	Fragment of Luman
11	01 C1 C1			៊	AAY66643	Membrane bond pro

A leneine-rich sur Human SLIT protein	Human SLIT protein Novel human diadno	cc359_4 secreted p	Human PROll1 prot	Membrane-bound pro	d many states and a	Human PRO1111 poly			Buman leucine-rich		Amino acid sequenc	Amine acid sequence		Amino acid sequenc	Human PR0265 prote	Human leucine-rich	Human sbqTanqo79a	Ruman PRC polypept	Bunds PR01855. Ro	Human PRO3 protein	Hattan in rel extrac		Human polypeptide,	Ruman protein SEQ	Human polypeptide,	Human protein sequ	Erman protein sequ	Euman polypeptide	Mana a PO1483 poly	Pritoglynn like	Main the alegentary country
AAB23033	AABC 3034 ABC 04827	AAY28806	AAB24073	AAY66694	AAE09438	AA7112290	AAB65217	AAU 2870	AAG65805	AAB84469	AA167523	AAY13349	AAU12346	AAB 31208	AAB80217	AAE13006	AAE09437	AAU19215	AAB87591	AAB70533	AA31.9626	AAM79891	AAM93814	AAM78907	AAM93408	AAH9 1758	AAR9 41.99	AARAGIJE	AAU12189	AACCOCS	AAEBLESE
2 2	- : 01 C1 (1	707	[]	21	51	61 61	CI CI	CI CI	CI CI	64 64	a	C	<u>:1</u>	54 54	74 84	77	C1	Ĉi.	54 54	22	H	7.7	다. 구기	C1	22.2	7.5	. 1 . 1	: 1	-1	64 64	•:
493 694	061 071 071 071	653	653	653	813	653	653	989	628	873	8-1-5	099	083	680	660	713	365	ر د چائ د	643	649	5.23	613	627	646	649	649	673	: * -2	7.	100	75 25
53.3	0.0 0.0	10.5	10.5		15.5	10.5	i. ⊖	- O	~ ; ;	10.2	C.	10.2	7.6	C1 : 3 : 1	30.2	10.1	10.0	٠ ٠	Ų.	9.6	3)	∞. ÷	ф Э	α0 Δ'	89	9.6	6.6	Ω. •	(X)	30 .=-	2)
1672	w. w w. w w. cz	330	430	3.30	330	330	330	3.73	204 204	 	ā	320	000	00%	420	117.5	¥15	507	303	¥0.8	308.7	308	40.8	408	40.8	¥0.8	11.00	5.7.5	30.7.35	300	70.0
27	5.5	16	17	18	; ·	() (1	74	C 4	~ :1	~1	<u>,</u> 1	3.6	r - c1	2 ~1	J.	9	7	<u></u>	~	3.4		46	L.,	æ÷	6,6	40		1 •#	, ···		.: -;-

AT TANMPNTS

```
ikesii, SM. 84, sancer, tumour, diagossis, therapy: human.
                                                           timban tumpun associated protein PRO357
              AAYöö484 standard; Protein: 598 AA.
                                                                                                                                                            9803 0070440.
9808-0083500.
9808-0086414.
                                                                                                                                       9010080-0M56
                                                                                                                                                      98US-0109304
                                            (Times to distribute they)
                                                                                                                                                             05-JAN 1998,
29-APR-1998;
22-MAY-1998;
                                                                                          some capiens.
                                                                                                        Windows 170 AD.
                                                                                                                                      05-JAN-1999:
                                                                                                                                                      20-Nº/V-1998;
                                                                                                                       15-JUL-1969
                              AAY06484;
        AAY UN484
PESULT
```

Carney AL. Billac RJ, Lawrence DA: 98070-9197784 Coddard A, (GETH) GENENTECH INC. BLISTOIS E, Codd: Roy MA, Wood WI: 10-JUN-1998; 10-N-V-1998;

98HS-0088742

WFI, 1999 430385/36. R Feds, AAX87261.

```
100
                                                                                                                                                                                                    UNA44804 was observed in various tamour lines, especially in colon tumours, suggesting a role in tumour formation or growth. Antagonists (e.g. antibodies) directed to PRO357 may have use in cancer therapy. The invarious identities I depress (see AAR87284-67) that are amplified in the genome of tumour cells. Such amplification is expected to be associated with overexpression of the gene product and to contribute to tumorigenesis. The encoded profesions (see AAV06477-90) may be useful targets for the diagnosis and may act as predictors of the prognosis of tumour treatment. Antibodies that bind the proteins
                      Antibody against proteins expressed in neoplastic cells, useful for
                                                                                                                                                     This separate or growers the Januar PROPET (PRESEL), a protein caseded by the novel canadian clone DNA44894 (see AAX87261). Amplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                   prognosis of tumour treatment. Antibodies that bind the are claimed and used in claimed cancer diagnostic kits.
                                                                                                  Example 1; Fig 16; 162pp; English
                                                     tumor diagnosis and treatment
```

PRODUCT PRODUCT PROTUCT, PROTUCT, PROTUCT PROTUCT PROTUCT, PROTUCT, PROTUCT, PROTUCT, PROBOCC, PROBOCC, PROBOCC, PROBOCC, PROBOCC, PROBOCC, PROBOCC, PROBOCC, PROPOCC, PROPOCC, PROPOCC, PROPOCCO, PROPOCCO, PROPOCCO, PROPOCCO, PROPOCCO, PROPOCCO, PROTUCT P

Amino acid sequence of novel polypeptide PRO357.

03-OCT-2000 (first entry)

598 AA; Sequence

```
Ċ.
                                                                                                                                                                                                                                                                                                                                00€
                                                                                                                                                121 ALPIAGLOLOGI DEGLESPLENTHPLDVSDNOTEFVPPVTROTEGLØPLELAGNTFTAGL. 180
                                                                                                                                                                                                                 19.1 PPERLACT AALQPT INVENIELGALPSELSSLEPPLIPLLAAARMPINGVOPLSWEGPWVRE 24.9
                                                                                                                                                                                                                                                                                24! shytluspeetrehtppknagrilleldyadfgepattttatypttrpyyreptalsssl 309
                                                                                                                                                                                                                                                                                                                                                                                                 301 APTWLSPIAPATEAPSPPSIAPPTVGPVP5PQNCPPSTCLNGGTCHLGTRHHLACLCPEG 360
                                                                                                                                                                                                                                                                                                                                                                                                                 UCP-d IS61ČAŠSUŠTAdŠTUA6TSLdSAdd1S1LisaddddLAddddddLOÖSKŠSdOATULd-Tyc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481 PPAVHSNHAPVTQAREGNLFLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQUKGQV 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 ENGITMERASSFAGEFGLEDESQNQIASEREFREELEDESHNSLEALHFGLEDIANVE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 Highycosquagqirpsptpvtprpprsltlgicpvsptslrvglqrylqgssvqlrslr 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4.2.1...TYPNI SGPPERLVII.PLPASI.AEYTVTQI.BPNATYSVCVMPLGPGRVPEGEEAGGDAHT 480
                                                              541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGPGLQSPLHAKPYI 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 CHUTLASEPITEMEHEPPKNACBELLELEVARFOODATTITATUNTFPPVVBFPTALSSSL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   c`
100.0%; Score 3135; DR 20; Longth 598;
100.0%; Prod No 2o-191;
Live 0; Mismatches 0; Indels 0,
                                 Conservative
             Local Similarity
                               598.
   Ouery Match
                                 Matches
                                                                                                                                  3
                                                                                                                                                                â
                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                             =
                                                                                                                                                                                                                                                                ÷
                                                                                                                                                                                                                                                                                            â
                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
```

AAY93691 standard; Protein; 598 AA.

AAY94691 RESULT

AAY93691;

```
"probaryotic membrane lipoprotein attachment site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New anti-polypeptide antibody useful in the treatment and diagnosis of neoplastic cell growth and proliteration -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BCY MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence represents a novel human polypeptide. The
                                                                                                                                                                                                                                                             "tyresine kinase phesphorylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Botstein D. Goddard A. Gurne, AL. Hillan E. Lawrence LA.
                                                                                                                                                   /note= "N-myristoylation site"
                                                                                                                                                                     /note= "N-myristoy]ation site"
                                                                                                                                                                                       "N-myristoylation site"
                                                                                                                                                                                                                                                                               "N·myristcylation site"
                                                                                                                                                                                                                                                                                                                                                     "N myristeylation site"
                                                                                                                                                                                                                                                                                                                                                                     /ndtc= "N-myristoylation site"
                                                                                                                                                                                                                                                                                                                 "N glycosylation site"
                                                                                                                                                                                                                                                                                                                                   "transmembrane demain"
                                                                                                                                                                                                                                            "N glycosylation site"
                                                                                                                                                                                                                                                                                               "N-glycosylation site"
                                                                                                                /note- "signal sequence"
                                                                                                                                                                                                         "Tougine zipper"
                                                                                                                                                                                                                          "leurine zipper"
                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 61; Fiq 16; 220pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-0113296
                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-0S05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US20111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US21090.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99W0-US28313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9049280-0W09
                                                                                                                                                                                                                                                                                                                                                                                                                           35008 Sil-OM56
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caddisi - UMo 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US28301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9988585-0W0-0
                                                                                                                                                                                                                                                                                                                /note "N
501..520
                                                                                                                                                                                                                 216
                                                                                                                                                                                                                                                                    .279
                                                                                                                                                                                                                                                  .270
                                                                                                                                                                                                                                   198..202
                                                                                                                                                                                                                                                                                       .429
                                                                                                                                                                                                                                                                                                                                           519..525
                                                                                                                                                                               112..118
                                                                                                                                                                                               122..144
                                                                                                                                                                                                                                                                                                        453..457
                                                                                                                                                                                                                                                                                                                                                     /nster "?
565..571
                                                                                                                                  /hote- '
23..29
                                                                                                                                                                                                                                             /note-
                                                                                                                                                                                        /note-
                                                                                                                                                                                                                         /note-
                                                                                                                                                                                                                                                                                                 /note-
                                                                                                                                                                                                                                                              /note
                                                                                                                                                                                                                                                                                                                                   /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GETH ) GENENTECH INC.
                                                                                                                                                                                                         /note.
                                                                                                                                                                                                                                                                               /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000-452188/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSPB; AAA46923
                                                                                                                                                                                                                                                                                                                                                                                      WN2000037640-A2
                                                                                                                                           Modified site
                                                                                                                                                             Modified-site
                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                               Home sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                            22-PEC-1998;
08-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16661
                                                                                                                                                                                                                                                                                                                                                                                                          29-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                          16-DEC-1444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wood WI;
                                                                                                       Pept.ide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30 - NOV -
                                                                                                                                                                                                                                                                                                                           Doma i n
                                                                                                                           Region
                                                                                                                                                                                                 Red ton
                                                                                                                                                                                                                  Pegion
```

Homo sapieus.

```
specification describes need polypoptides designated PECSO1, PECSO2, PROTES, PECSO3, P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and proliferation in mammals.
```

598 AA: Sequence Ç

61 ENGITMEDASSPACIPCIQI DA SQNQTASI PIPPITI I BISHRSTLALFFOTEDTAAVE TEG ALPLAGEOLOPICE PSPLPNLPD, DVSDNQLEPVPPV LPGLPSLTPLD, ASNTPLAGE 180 SHVTLASPEETFOHFFPKNAGFUTLELDYADFGCDATTTTATVITTFFVVFEPTALSSGL 300 APTWLSPTAPATEAPSPEAPPTVGPVPQMQFGPPSTGLNGGLGHLGGPHHLACLCPFG 460 FIGLYCESQMGQCTPPSPTPVTPPPPSUTLGIEPVSPISLRVCLQRYLQGSSVQLRSLR 420 TYFNLSGPÜRPLYTLELPASLAETTVTQT FPNATYSVIVMELGFÜFEHVEGELAGGEAUF 130 421 ltyrnlsgpdkrivtlrlpaslacytviglrpnatysvcvmplapgrypeqeeacgeaht 480 481 PPAVHSNHAPVTQAREGNI PULLAPALAAVI LAALAAVGAAYCVEFGFAMAAAAQDKGQV 540 Caps 241 shytlaspeetrehippkhagrilleldyadfyaputtitateptinpvnicptalsssl Ó 100.0%; Score 3135; DB 21; Length 598; Indels a) 100 0%; Prod. No. 20-191; 170 0; Mismatches 0, Matches 598; Conservative Best Legal Similarity Ouery Match 盐 QCI qq ò ò 100

```
541 CPGACPLELEGVKVPLEFGPRATEGGGBALFCGSEGBYTLMCFFGFGLGGRU-6AKTT: 558
                                                                                                                                                                                                                                       antibody; screening; detection; inhibition; probe; primer; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRO: membrane bound protein, secreted protein; PRO357; PRO347; PRO243; PRO243; PRO347; PRO343; PRO353; PRO355; PRO355;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB01322 standard; Protein; 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human PRO357 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       35-cpp-5000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB01322;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB01322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                            ġ7
```

polypeptides which are designated as PRO polypeptides are described The membrane boind proteins have various industrial applications, including as pharmaceutical and diagnostic agents. The membrane-bound proteins can also be employed screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. Anti-PRO antibodies are useful for the attinity purification of PRO

from recombinant cell culture or natural sources

598 AA;

Sequence

New human nucleic acids encoding secreted and transmembrane

```
polypeptides, designated as PRO polypeptides, useful as pharmacentical
                                                                                                                                                                                                                                ESF like domain systeine pattern signature
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski PJ, Grimaldi CJ, Gurney AL:
arivi MA, Boy MA, Funas D. Wood Wit
                                                   Prokarystic membrane lipoprotein lipid
                                                                                                                                                                                         "Type view Michael physphery Lating site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New human nucleic acids encoding secreted and transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Riker KP, Butstein P. Eaten DL, Ferrara M. Filvaroff Er
                                                                                                        .]118
te- "N-myristoylation site"
                                                                              "N-myristoylation site"
                                                                                                "N-myristoylation site"
                                                                                                                                       Leucine Lipper pattern
                                                                                                                                                        Leucine sipper pattern
                                                                                                                                                                                                             "Nomyristoylation site"
                                                                                                                                                                                                                                                                                                         "Magniste; Lation site"
                                                                                                                                                                                                                                                                                                                           "M agristoglation site"
                                                                                                                                                                                                                                      425..429
Tusto "Nathemylation site"
                                                                                                                                                                          "N-glycesylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E. Goddard A. Godowski PJ. Grim.
Kljavin 13. Hapler MA. Boy MA.
                                                                                                                                                                                                                                                                     "M-qlyrusylating site"
                                                                                                                                                                                                                                                                                       Transmembrane domain
                                                              attachment site
                          ..23
label- Signal peptide
                www.atich,Quailliers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 12; Fig 26; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                             98US-0112850.
                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US25108
                                                                                                                                                                                                                                                                                                                                                                                 99Wh-0528301
                                                                                                                                                                                                                                                                                                               .571
                                                                                                                                             94..216
                                                                                                                                                                                                    274..279
                                                                                                                                                                                                                       355..367
                                                                                                                                                                                                                                                                                               519..525
                                                                                                                                                                98..202
                                                                                                                                                                                   262..270
                                                                                                                                                                                                                                                                             522
                                                                                                                                                                                                                                                                                       /label-
                                                 label:
                                                                                                                                                       -1046
                                                                                                                                       Librel.
                                                                                                                                                                                                                                 Topic:
                                                                                                  /note
                                                                                                                     /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                       (CELTH ) CEMENTECH INC.
                                                                                                                                                                                                                note
                                                                                                                                                                                                                                                                      first c
                                                                                                                                                                                                                                                                                                                           /hote
                                                                                note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and diagnostic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MITC - 2000 - 112/21/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB; AAA49564.
                                                                                                                                                                                                                                                                                                                                            Wrz00032776 A2.
                                                                      Modified-site
                                                                                        Modified-site
                                                                                                          Modified-site
                                                                                                                                                                 Modified site
                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                            Modified-site
                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                  Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen ME,
                                            Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                91-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                             16-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                    186.6T-051 FF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hillan KJ,
                         Peptide
                                                                                                                                                                                                                        Domain
                                                                                                                                                                                                                                                                              Юпаіп
                                                                                                                              Domain
                                                                                                                                               Окотаіп
```

```
61 ENGITMEDASSFAGEPGLOLLEDESQNQIASEREPRELEDESHNSLLAEPGILEMAYE 120
                                                                                                                                          241 SHVTLASPEETRCHFPPKNAGRLLLELDYADFGGPA1TITATVPTTRPVVKEPTALSSSL 300
                                                                                                                                                                                                                                                                                                                                  741 Sby laspertrebiggeaptlieldpadigapatttatugetheraptlieldpadia
                                                                                                                                                                                                                                                                                                                                                                            401 APTWISPTAPATEAPSPPSTAPPTVGPVPQPQDGPPPSTANGSFCHLGTFRHILACTGPEG (Å)
                                                                                                                                                                                                                                                                                                                                                                                           461 FTGLYCESQMGQGTRPSPTPVTPRPPRSLTLCTPPVSPTSLPVGLQRYLQSSSVG19SLP 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421 Hyrnisgpekrivtiripasi-eytviqirpnatysvçvmpiqpaypegesadgeahi 480
                                                                                                                                                                                      21 ALBLAGICIQQI DEGLESPLENLHDLDVSDNQLERVPPVIRGLEGLIRLRLAGNTRIAQL 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       461 Hqlyresqmqqtrpsptpvtprpprsltlgiepvsptslrvqiqrylqgssvglrslr 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 LIYRNI.SGPOKRLVILRLPASLAEYIVTQLRPNAIYSVCVMPLGPGRVPEGEEACGEAHT 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481 PPAVHSNHAPVTQAREGNLPLLTAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGQV 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cape
                                                              1 MCSRVPILLIPILLILALGERGVGGPSGCQCSQPQTVFCTARQGTTVPRDVPPDTVGLYVF 60
                                                                             541 GPGAGPLELEGVKVPI PPGPKATFGGGFALPSGSECEVPLMGFPGPGLQSPLHAKPYT 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 RPEDIAGLAALOFI DVSNI SLOALPGDISGLEPRLELLAAARDPENGVOPLSWFGPWVRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human: PRO protein: timear necrosis factor family: TMT, sytekine, secreted protein; transmembrane protein; inflammation disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 3135; DB 21; Length 598;
                               Indels
                ; Pred. No. 2e-191;
0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY17831 standard; Protein; 598 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human PRO357 protein sequence.
                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0075945.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       970S-0069278.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-US25108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-0069335.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-0067411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-Ams-luge (tirst optry)
                               598; Conservative
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W09928462-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JUN-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-PEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11 - DEC - 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 - DEC - 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY178 11;
                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AY17831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E HISEN
                                                                                                                            Š
                                                                                                                                                        <del>2</del>
                                                                                                                                                                                                                  <del>2</del>
                                                                                                                                                                                                                                                                                                                                               <del>2</del>
                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  â
                                                                                                                                                                                        ó
                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
```

47HS-0069425

12-PPM-

```
The present invention describes nucleic acids covoding its secreted and transcenting its tables used theragentically. The PRO proteins have exposited, anti-inflammatory, anti-proliferative and immunosuppressive activity. The proteins and polyunofocolides can be used in therapy, identification of homologues, raising antibodies and design of probes and prisacs. They can be used in a rance of discuss clained to protein that they have homology and prising may be used in inflammatory responses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24. skyllaspeer relipperatelileldysdarparitting prinperopialsss 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 PNGTTNI PASSPACT PST GT EFFORMASI PLPPLITTEN SHRSTLALIDRALVE 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121. ALPLAGLGI OĞI DEGI PGELERILIDI PVSPNQI PEVEDVLESI ESLITELELASNIKLAQI. 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301 APTWESPTAPATEAPSPPSTAPPTVQPVPQPQFGFPFSTCLNGGTCHLGTRHHLACLAPEG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 aptwlsptapateapsppstapptvqpvpqpqddqppstclnqqtchlqtrhhlaclcpcq 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 FTGLYCEGOMGGGTPPGCTDVTPPPPPGGLTG/TPPVGPTGLPV/CPPTQPYTQCGGQTPSLK-420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421 LIYYRNLSGPDKRLVTLRLPASLAEYTVTQLRPNATYSVGVMPLGPGRVPEGEEAGGEAHT 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421 ltyrnlsapd&rlvtlrlpaslacytvtqlrpnatysvcvmplaparypeqeeacqeabd 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481 PPAVHSNHAPVTQAPFGNLPLLIAPALAAVLLAALAAVGAAYCVPPGPAMAAAAQDKGQV 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MCSRVPLLLPLLLLLALGPGVQGCPSGCQCSQPQTVFCTARGGTTVPRDVPPDTVGLYVF 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 RPEDLAGIAALQELDVSNI,SLQALPGDLSGLFPRI,RLLAAARNPPNCVGPLSWFGPWVRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SHVTLASPEETRCHEPPENAGRIJLEIDYADFOCPATTTTATVPTTRPVVREPTALSSSI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids encoding PRO secreted and transmembrane proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 3126, DB 20; Length 598; Pred. No. 7.6e-191;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                         Baker KP, Chen J. Goddard A, Gurney AL, Wood W1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. 7.6e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                              Claim 12; Fig 29; 123pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99.78;
                                                                97US-0069873.
                                                                                                      98US-0070440.
                97US-0069696
                                                97IIS-006.9870
                                  97US-0069702
                                                                                  97US-0068017
                                                                                                                                      98US-0074092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99.88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 99.8
les 597; Conservative
                                                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                         WPI; 1999-371118/31.
                                                                                                                      3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    598 AA;
                                                                                                                                                                                                                                                                             N-PSDB; AAX80056
                                16-DEC-1997;
17-DEC-1997;
17-DEC-1997;
16-DEC-1997;
16-DEC-1997;
                                                                                  18-1997;
                                                                                                      05-JAN-1998;
                                                                                                                    29 - FERS 1998;
                                                                                                                                      09-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                           Yuan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ج
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ć
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ċ
```

=

ò

XX

673 AA;

Sequence

X X

```
The present sequence represents a leucine-rich surface glycoprotein (LRSG). Modulators of LRSG can be used to treat disorders
541 GPGAGPLELEGVKVPLEPGPKATEGGGRALPSGSECEVPLMGFPGFGLGSPLHAKPYI 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 characterized by aberrant DRSG protein or nucleic acid expression
                                                                                                                                                                                                                                                                                          Amino acid sequence of a louping-riph surface glyceptotein (LRSG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polypeptides used in diagnostics and screening assays to identify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or activity. The LASS proteins can be used to treat disorders associated with insufficient or excessive production of LRSG, or LRSG target molecules. LRSG proteins and antibodies specific for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New Teucine-rich surface alycoprotein (LRSG) polynucleofides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      it are used in screening assays, diaquostic assays, prognostic assays for monitoring clinical trials and in pharmacogenetics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "fibroperio type ill demais"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modulators used to treat LRSG associated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /ಐಣ್ಣ= "tras=membrase domais"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "leurine-rich region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "legatine-rich report"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "!onoino-rich repent"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "leucine-rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "leucino-rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "leumino rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "leucine-rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "PCF-like demain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Znoto= "signal poptido"
                                                                                                                                                                                                                                                                                                                                       Leucine-rich surface glycoprotein; LRSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                       AAB07428 standard; Protein; 673 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 9; Fig 1; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              987E 0063950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99Wri US08792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAA58765, AAA58766.
                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       576..599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            101..123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            460..535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               77..309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               =ひょいし,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000-482823/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W0200042170 A1
                                                                                                                                                                                                                                                                                                                                                                                    Home sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-APR-1999;
                                                                                                                                                                                                                                               20-9CT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21 APR 1998,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Holtzman [A]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-001-2000
                                                                                                                                                                                                  AAB07428
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pept.ide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   assays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Region
                                                                                                                                  AAB07428
                                                                                                          RESULT
```

THE THE THE THE THE TAX X A S C S

```
105
                                                                                                                                                                                                         ୍ଞ ।
                                                                                                                                                                                                                                     16.5
                                                                                                                                                                                                                                                                                                                                                      285
                                                                                                                                                                                                                                                                                                                                                                                                              345
                                                                                                                                                                                                                                                                                                                                                                                                                                         typewropialssslaptwisptapateapsppstapptyqpypgpydeppstelnygte 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A46 HEGTRHHLACLCPEGFTGLYCFSQMGQCTRPSPTPVTPRPPRSEJTEGTRPVSPTSFRUGE 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541 grupogedacycabtyparhenhapytqaregolpiliapalaavilaalaayqaaycyr 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (2) 64;64;155345519 414 50;346 144;46 faja; Bet B. Sfightermunts (2)
                                                           1 MCSRVPILLIPLALIAALGPGVQGCPSGCQCSQPQFVFCTAKQGTTVPRDVPPDTVGLYVF 60
                                                                        SHSTOTITION SHARE
                                                                                                                                                                                             196 - FLALPPOTT BITANVPAGRICACO CLOCT PORT PSPERNIADIOVSONOLERVPPVTRGERG
                                                                                                                                                                                                                                                    ZHA TEVVVEFPTALSSSLAPTWISPTAPALFAPSPPSTAPPTVREVPQPQPQPSTCLNGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  higtrhhiacicpogitglyccsqmgggtrpsptprtprpprsitlgicprsptslrygl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               106 -QPYTQSSSVQLPSTFL FYFN: SIGTORFLVTFPLFASTAPYTVTQLRFNATYSVQVMPLGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.66 GEVTEGEDAGGEAHTTPPAVIESHIAPVTQAREGNEDTETATATAAVELAALAAVGAAYCVR
                                                                                                                                                                                                                                                                                               TTPLPLAGNTPLAGI PPPPLAGI AALQPLINGSNI SLGAT PGDI SGLIPPLLAAARAPP
                                                                                                                                                                                                                                                                                                                                                      <u> NOVOPLSWPOPWVPESHVTLASFPETFCHPPPKNACPLILFFDYADPGCPATTTTATVPT</u>
                                                                                                                                                                                                                                                                                                                                                                                                                             98.4%; Score 3083.5; DB 21; Longth 673; 88.7%; Pred. No. 4.4e-188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                              0; Mismatches
                                                                                                                    61 ENGITMEDASSFAGLPGLQLLDLSQNQIAS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB87534 standard, Protein; 673 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; PRO protein; mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-MAY-2001 (first entry)
                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661 pqlqsplhakpyi 674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          586 POLQSPLHAKPYI 598
                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         We200116318-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human PR01282.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB87533;
   Query Match
                   Local
                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB875 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                      Š
                                                                                                                                                1
                                                                                                                                                                               Š
                                                                                                                                                                                                         9
                                                                                                                                                                                                                                      6
                                                                                                                                                                                                                                                                  <u>a</u>
                                                                                                                                                                                                                                                                                                                         <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                2
                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ζ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                      3
                                                                                                                                                                                                                                                                                                                                                                                                                                         4
```

```
99WO-0521547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US 40911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US04341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US05004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000WO-US05884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000WO-US05841
                                                                                                                                                                                                                                                                                                                                                                                                            02 APR-2001 (first entry)
                                                                                                                                                                                                                                                                             661 pglqsplhakpyi 673
                                                                                                                                                                                                                                                  586 PGLOSPLHAKPY1 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnostic assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200073454-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-FEB-2000;
24-PEB-2000;
24-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-NOV-1999;
01-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e≽-IAN-∠éeu;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-UAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 - Fris - 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-DEC-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-DMC-1999;
                                                                                                                                                                                                                                                                                                                                                                                 AAB65166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   - 1 - VII - L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - LDO- 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-SEP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-1111.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-SEP-
                                                                                                   481
                                                                                                                                                                                                                                                                                                                                    AAB65166
                                                                                                                                                                                                                                                                                                                          RESULT
               Š
                                          9
                                                                                                   2
                                                                                                                                õ
                                                                                                                                                            급
                                                                                                                                                                                                                   Í
                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is a human PRO polypeptido (xelected and transmembrane). The PKO protein, and PKO agonists, PKO antagonists or anti-PKO antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PKO protein, agonists, antagonists or anti-PKO antibodies. The PKO protein may also be employed as molecular weight markers for protein electrophoresis. The PKO coding sequence has applications in molecular biology, including use as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 rglmilerlylgkomimhigpgafduldmilelklgdneimalppimipmillidishns 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----LKLPRLLLLDLSHNS 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     224 - novore emecewysissiyat Asfritteeristena pri it filtyalsootaati (TATV) (1. 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            286 IRPVVREFTALSSSLAPTWLSPTAPATEAPSPFSTAPPTVGPVPQPQPQPSTCLNGGTC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               75; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MCSRVPLLLPLLLLLALGPGVQGCPSGCQCSQPQTVFC7ARQGTTVPRFVPRDVPF01VGTYVF 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 mesempillipililia/gpangapsagagasapjanfatangataprdypdtng1pmf 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  106-11AI PPOTEDTANVBALBI ACECEÇOT PPOTESPLPNEHOLIVSONQUEPVEPVEROLPO
                                                                                                                                                                                                                                                                                                                                                              moterniar biology, including use as hybridization probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                               Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Secret 1983 5; 198 22; Tength 673;
                                                                                                                                                                                                                                                                                                                                                     Eighty four nucleic acids encoding PRO polypeptides, useful in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hybridisation probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                               Goddard A,
                                                                                                                                                                                                                                                                               Wood WI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 4.4e-188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 ENGLIMINASSFAGLPGLQTIPLSQNQTAS----
                                                                                                                                                                                                                                                              Eaton DL, Filvaroff E, Gerritsen ME.
Grimaldi CJ, Gurney AL, Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                            Claim 12; Fig 16; 278pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ć
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98.1%;
                                                        99US-0169495.
                                                                                                                                                            2000013-0187202.
2000018-0199397.
                                                                                                                                                                                       2000WO US14042.
?@^@ws-02@4832.
                                                                                                                 2000WO US04342
                                                                                                                                            2000WO-US05601
24-AUG-2000; 2000WO-US23328
                                          99WO-0821999
                                                                      9903-0170262
                                                                                                                                2000WO US04414
                                                                                  2000US-0175481
                                                                                                     2000MO-US04 441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                  (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                         2001-184260/18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 673 AA;
                                                                                                                                                                                                                                                                                                                        N-PSDB; AAF'92065
                                                                                                                                                          .2mi0;
                                       15-SEP-1999;
07-DEC-1999;
                                                                                                               18-PEB-2000;
22 PEB-2050;
                                                                                                                                22 FT38-2050,
01-MAR-2000;
                                                                                     11-JAN-2000;
                                                                                                                                                                          25-APR-2000;
                                                                                                                                                                                       22-MAY 2000;
05-JUN-2000;
                                                                        1999;
                                                                                                   2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                   18-FEB-
                                                                                                                                                         03-MAR-
                                                                      09-DEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
```

3 8 3 8

â

S 2

ŝ

```
465
                                                               HIGTBHHI ACTOPFGFTOLVEFSOMGOGTRPSOTDVTPRPPRSLILGTEDVSPTSLRVOL 405
                                                                                                                                                                                                                                                                                     541 grkpegeeaegeahtpparhsshapstgaregolplliapalaa.Hlaalaargaay.vr 600
                                                                                                                                                                                                                                                                                                                           PGRAMAAAAQLKOOVGTOACIYIIKH YOVKVITTIYORKATIYOOTIAL ISOONY EVPUMOFIYO SBS
                                                                                                                                                                                                                                         GRVFEGEERGGERHTPFAVHSNHAPVTQARHONLFLLIAPPALAAVIJAALAAVGAAFOVR 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human, secreted and transmembrane protein, PFO, cytostatic;
cell death; cancer; chromosomal mapping; qene mapping; tissue typing;
                                                                                    QPYLQGSSVQLPSI PLTYPNI SGFFRPLVTI PLPASLAEYTVTQLKFNATYSVCVMPL3P
                                                                                                                                                                                                                                                            Human FK91282 (SNQ652) protela sequence 365 10 No.52.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB65166 standard; Protein; 673 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99W0-US12252.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO-US28313.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US21090.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9908-0158663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-0S08439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $4015-014 304R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0144758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01:5698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 990083U-0W99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61600Sin-0M00007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US00376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000WO-US03565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US04114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US04914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US07377
```

2

466 GEVFEGEEACGEAHTFFAVICHIAFVTÇAREGNEFLLAPALAAVILJAALAAVGAAYTVR

```
toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fraquents, can be used as hybridisation probes, in chromosomal and gone mapping, and in the generation of anti-sense PNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PPO antibodies can be used in diagnostic assays.

AAF44270 to AAF4470 represent PCE primers and hybridisation probes used
Baker KF, Botolein S, Desmoyers L, Euton SE, Godowski PJ, Ourreson ME, Gobbard A, Godowski PJ, Christon AI, Confer MA, Dis. J. Paoni MI. art FA, Tumas D, Watanabe CK, Williams PM, Wood WI)
                                                                                                                                                                                                                                                                                                                                                        The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have extostatic activity. The PRO proteins can be used for targeted delivery of bioactive molecules, such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and SNA. They may also be used to produce transgenic animals which a
used to develop and screen therapeutically useful reagents. The PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in the isolation of homan PPO sequences. ARE44087 to AAE44269 and AAE65154 to AAE65300 represent human PRO polynuccentide and protein sequences given in the exemplification of the present invention.
                                                                                                                                                                                                               PRO polymuclecatides used to produce polypeptides used to target
                                                                                                                                                                                                                                        as towing, radiolabols or antibodics,
                                                                                                                                                                                                                                                             specific cells, to cause targeted cell death -
Ashkenati AJ, Baker KF, Butstein D,
                                                                                                                                                                                                                                                                                                             Claim 12; Fiq 32; 935pp; English.
                                                                      Stewart PA,
                         Fong S,
                                                                                                                                           Park 15:16:1300
                                                                                                                                                                 N-PSDB; AAF44105.
                    Ferrara N, F
Grimaldi Cf.
                                                                      Roy MA,
Shand 2,
```

673 AA; Sequence

```
345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                346 HEGTRHHLACLOPFGFTGLYOFSQMGQGTPPSPTPVTPHPPESLTLGIEPVSPTSLRVGL 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                42) higtrihlarlepegitalyreaqsagtrpaptprtprpgxsltlglepvaptslrql 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 406. QPVLQGSSVQLPSLPLTYPNI SGPDKPLVTLRLPASLAEYTVTQLPPNATYSVCVMPLGP 465
                                                                                                                                                                                                                                121 rglrrierlylgknrirhigpgaldtidrlleikigdnelralppirlprlllldishns 180
                                                                                                                                                                                                                                                               106 LLALEPGII.DTANVEATRIAGI.GI.QQLDEGLFSRI.RNLHDI.DVSINQI.ERVPPVIRGI.RG 165
                                                                                                                                                                                                                                                                                                                                 166-17RTRIAGNTRIAQLRPEDLAGLAALQELDVSNISLQALPGDLSGLFPRLRLLAAARNPF-225
                                                                                                                                                                                                                                                                                                                                                                                                226 NCVCPLSWFGPWVRESHVTLASPDETRCHFPPKMAGRILLELDYADFGCPAUTTTATVFT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361 trpvvreptalssslaptwisptapateapsppstapptvgpvpqpqdcppstclnqqte 420
                                                             -----LRLPRLLLLDLSHNS 105
                                  75; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                 TRPVVREPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTVGPVPQPQDCPPSTCLNGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99.4%; Score 3083.5; UB 22; Lougth 673; RA 7%; Pical No. 4 45-189;
Live 0: Mismatches 1; Indels 75;
                                                                                                                                61 ENGITMIDASSFAGLPGLQLLDLSQNQIAS---
                                  597; Conservative
               Similarity
 Query Match
                  [ 600 ]
                                  Matches
                                                                                                q
                                                                                                                                                             9
                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                               김
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ζ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                ä
                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ad
```

WPI; 2001-441677/47.

```
immune response, stroke, brain damage, paralysis, Huntington's disease, neurodegenerality disease, amyotrophic lateral sciencesis.

Altheimer's disease, Parkinson's disease, peripheral neuropathy, demyelinding disease, mainton's disease, peripheral neuropathy, pelimenting disease, mainting sciences; und organogenesis, pelimental disease, respiration; chronialion; cystic fibrosis; asthma; immunosuppression; autoimmune disease, insulin dependent diabetes; rheumatoid arthritis.
           Slit protein, islits; neurite growth; cellular proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                         "I.RR domain comprising LRR motits"
                                                                                                                                                                                                Amino acid sequence of human slit polypoptide Eslits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                "N linked qlycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "N linked glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "N-linked qlycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "N linked qlycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "N linked glycosylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "putative prenylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "putative prenylation site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "putative prenylation site"
                                                                                                                                                                                                                                                                                                                                                                          "siqnal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                 "mature protein"
                                                                                                                                                                                                                                                                                                                                                    Coration/Youalifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "EGF domain"
                                                                                                                              AAB84689 standard, Protein; 673 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Holloway JL, Chandrasekher YA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-DEC-2000; 2000WO-US34230.
                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (RYMO ) RYMOGRAFFICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 409.441
                                                                                                                                                                                                                                                                                                                                                                                      24..650
                                                                                                                                                                                                                                                                                                                                                                                                            53..287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note
528
                                             586 PGLQSPLHAKPYI 598
                                                                    eel pylyspikakpyi 673
                                                                                                                                                                                                                                                                                                                                                                                                                           Znot.e-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                 fact.e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200146418-Al
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified site
                                                                                                                                                                                                                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modified site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-DEC-1999;
                                                                                                                                                                           17-SEF-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-JUN-2001.
                                                                                                                                                     AAB84689;
                                                                                                                                                                                                                                                                                                                                                                Peptide
                                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Domain
                                                                                                                                                                                                                                                                                                                                                                                                               Semain.
                                                                                                                    AAB84689
                                                                                                       RESULT.
                                                                                                                                                                5
                       --
                                              ò
```

601 igiamadaqdkggqqpqqqflcleqvkqflcpqfkalcqqqqcalpsqseeevplmqfpq 660

```
the present sequence represents a human slit protein polypeptide, designated [35][13] as a munite growth and development modulator, and an cellular proliferation and differentiation and immune response modulator. Zalit is a munite growth and development medulator. Zalit is polypeptides and polymelectides are useful for requerating and directing neurite outgrowths following strokes, brain damage caused by head injuries, prartysis caused by spiral injuries, and for treating neurodespeterative diseases such as anyotrophic lateral scherosis, Alzheimer's disease, Huntington's disease, Parkinson's disease and peripheral neuropathics, or demyelinating diseases of sectors and peripheral neuropathics, or demyelinating diseases and repair, and thus useful for lung craphogenesis and treating pulmenary diseases such as respiration and circulation, cyatic librosis and asthma. They also act as a mediator of immunosuppression, and thus are useful for diabetes and rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 rgirrlerlyigkarirhigpgafðtlárllelklydneltalppitiprlllldlshus 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           106 LLALEPGILDTANVEALRLAGLGLQQIDEGLFSRLRNLHDLDVSDNQI.RRVPPVIRGLRG 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       286 TRPVVREPTALSSSLAPTWLSPTAFATEAPSPFSTAGEVGPVFQPGGGPPSTCLNGGTC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           461 trpvvvoptalssslaptwlsptopatoapsppstapptvgpvpppqdoppstclnggte 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16F (TPLFLACHTPIAQLEPERLACIAALQFLPVSKLSLQALFSHLSGLFFEERLAAARNF 225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  226 HOVOTHOWEOPWVRDSHVTLASPEDITHOHETERHAGKELLIGENASFIGGFATITTATVFT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 75; Capo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MCSRVPLLLPLLLLALGEGRQGCPSGCQCSQPQTVFCTAPQGTTVPPPVPPPVGTYVF 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosing cystic fibrosis, insulin dependent diabetes and multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 22; Length 673;
                                                                aseful for treating and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2: indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98.2%; Score 3078.5; DH 22
88.6%; Pred. No. 9.1e-198;
tive. 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 ENGITMEDASSPACEPCEQUEDESQUOLAS -----
                                                                                                                                                                                                      Claim 1; Page 119-121; 125pp; English.
                                                             Novel human slit polypeptide, 28LIT3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        673 AA;
N-PSDB; AAH28470
                                                                                                                                     selerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local
```

ŝ 4 ŝ g ò 3

5

qq

ò

ŝ ŝ ŝ Ē

```
eptestalla, cardiant, casotragic, cardengristedine, neur gribe tive;
mootrapke, antibacterial; vinucide; fungicide; opthalmalogical; human;
vulnerary; gene therapy; infection; secreted protein.
                                                                                                                                                                                                                                                                                                                    Birse CE;
                                                                                                                                       Immunosuppressive, antiarihritie, antirbeumatie, antiproliterative;
                                                                                                                                                                                                                                                                                                          Rosen CA, Support DR,
Florence KA, Moore PA,
                                                                                                                      Human secreted protein encoded by gene 3 clone HSYAV50.
                                                                AAB38323 standard, Protein; 673 AA
                                                                                                                                                                                                                                                                                                           Ni J, Komatsoulis GA,
                                                                                                                                                                                                                                                                                                                    Ebner R,
                                                                                                                                                                                                                                                             09-APR-1999; 990S-0128693.
26-APR-1999; 990S-0130991.
                                                                                                                                                                                                                                                                                         (HUMA ) HUMAN GENOME SCI INC.
                                                                                                                                                                                                                                            06-APR-2000; 2000WO-US08979.
                                                                                                   31-JAN 2001 (first entry)
                                                                                                                                                                                                                                                                                                                    Olsen HS,
                 661 palqsplhakpyi 673
586 PGLQSPHAKPYI 598
                                                                                                                                                                                                                                                                                                                                                WPI; 2000-647418/62.
                                                                                                                                                                                                        WC200061623-A1.
                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                          19-0C1-2000.
                                                                                                                                                                                                                                                                                                                    ΩM.′
                                                                                                                                                                                                                                                                                                            Ruben SM,
                                                                                                                                                                                                                                                                                                                             Young PE;
                                                                                 AAB38323;
                                                                                                                                                                                                                                                                                                                     Lafleur
                                                       AAB38323
                                              RESULT
                 qq
ζÓ
```

Sequences AAB3831-B3833 represent the amino arid sequences of 62 human secreted proteins encoded by the genes AAC69512-C65587. The genes and proteins are useful for preventing, americal arida or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nurleic acids, proteins, antibodies and antigonists are useful in the classical treatment and prevention of (a) autodimine discuss e.g. themmatoid arthritis: (b) hyperproliferative discuses e.g. negplasms of the breast or liver, (c) cardiovascular disorders e.g. cardiac arrest; (d) corebrovascular disorders e.g. cerebral ischemia; (e) angloqueseis, (f) nervous system disorders c.g. Althefact's disorasc; (a) Infections caused by bacteria, viruses and tumpi; and (h) could disorders e.g. corneal intertion. The polypepticles can also be used to aid wound healing and epithelial cell proliferation, to prevent skin supporting cell culture of primary tissues, to requerate tissues and in aging due to sumburn, to maintain organs before transplantation, for

New nucleic acid molecules encoding 62 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives.

Claim 11; Page 591-593, 716pp; English.

673 AA, Seguence

421 hlatrbhlachcpegftglycesqmqqqtrpsptpvtprpprsltlq.epvsptslivgl 480

346 HIGTRHILACLOPEGETGLYPPSOMGOGTPPSPTPVTPPPPPPSTTLATEPVSPTSLPVGL 405

ć â ŝ KGRAMAAAAQDKGQVGPGAGPLELEGVKVPLEPGPRATEGGGFALPSGSECEVPLMGFPG 585

979

93.6%; Score 2935; DB 21; Lenath 673; dilazity 85.2%; Pred. No. 1.2e-178; Conservative 3; Mismatches 15; Ledels ... Similarity 576; Query Match Local Matches

1 MCSRVPLLLPLLLLLALGPGVQGCPSGCQCSQPQTVFCTARQGTTVPRDVPFD1VGLYVF 60

ó

```
Immunosuppressive; antiarthiff; antirhoumatic; antiproliterative; eytostatic cardiant; vasotropic; crebroprotective; neuroprotective; noorropic; antibacterial; virucids; togsicide, opthalmalogical, human, vulnerary; sene therapy; infection; secreted protein.
                                                                                                                                    | 106 | 1.ZALEPOLILOFANVEALPIANTOLOGI 1959 F.PERENI,HTILVSDROF PVVPVIPGI,FO | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TPPVVPPPTALSSSLAPTWLSPTAPATHAPSPPSTAPPTVGPVPQPQPQPGTCLNGGTC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40) qrylqqssvqlrslrltyrnlsqpdkrlvtlrlpaslacytvtqlrpnatysvcvmplqp 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     466 GRVPFGEFAGGEAHTPPAVHSNHAPVTQAREGNLPLLLAPALAAVLLAALAAVGAAYCVR 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 rglreferlylgkmrirhiapaafdthdrieikiqdmeiralpplipplihdishas 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RCVCPLOWFGPWVRESHVTLASPEETRGHFFPRNAGRIJJIJIRADFGG; ATTTTATVPT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         526 RCPAMAAAAQDRGQVGPGARPI RIFGVKVPI RPGPKATRGGGALPSGSECEV---PLMG 582
                                                                                                                                                                                                                                     TOT SMEEDING TOTAL
Fragment of thomas severed from the best to prose a time HSYAVER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              166 LIPEPLAGMIRIAQUPPPLAGLAALQELIVISNUSIQALIYIYLSOLPPPLPLIAAAARINY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             406 QRYLQGSSVQI PSI PI TYPNI SGPOKPI VII PLPASLAEYTVTQLPPNATYSVCVMPLGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 ENGITMIDASSPAGIPCIQLIDISQNQIAS ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB38400 standard; peptide; 723 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-APR-2000; ՀՓԾՈԾՈ-ՈԶՈՑԳ7Գ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9905-0128693.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41-JAN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  583 FPGPGLUSPLHAKPYI 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661 wp----qsplhakpyi 672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W0200061623-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-APP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-APP-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-OCT-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH38400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AB38400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                ô
                                                                                                                                                                 q
                                                                                                                                                                                                                                     ġ7
                                                                                                                                                                                                                                                                                                                                                                         ä
                                                                                                                                                                                                                                                                                                                                                                                                                                      감
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \ddot{c}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q
D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \tilde{c}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ολ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          먑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
of the breast or live; (*) fardinascular disorders c.d. cardide arrest. (d) cerebrowsscular disorders e.g. cerebral ischemia; (e) and inceptions caused by bacteria, viruses and fundi; and (h) orular disorders e.g. Alzheimer's disease; (g) infections caused by bacteria, viruses and fundi; and (h) orular disorders e.g. corneal infection. The polypoptides can also be used to aid wound healing and epithelial cell profileration, to prevent skin using due to subuta, to maintain ordans but or timestantation, for subutantation ordans but or timestantation, for suburing cell culture of primary tissues, to regenerate tissues and in
                                                                                                                                                                                                                                                                                          Sequences AAR48 (21 B38496 represent the amino used sequences of 62 human secreted proteins encoded by the genes AAK56512-065887. The quies and proteins are useful for preventing, amount they are useful for protein or quie therapy. The genes are isolated from a range of human tissues disclosed in the specification, the howier acids, proteins, antibudies and (antisqonists are useful in the disclosed disclosed and prevention of all autoimmune discases e.g. rheumatoid arthritis; (b) hyperproliferative disorders e.g. neoplasms
                                                                                                                                                                   New nucleic acid molecules enseding 62 human secreted proteins for diagnosing, presenting, freating or ameliorating medical conditions and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 106 ILALEPOTTOTANVEALRIAGLOLOGIOPSTESSLRNUTHOLOVSONOTERVPPVIRGERG 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               412 trpyrrcptalssslaptwlsptapateapsppstapptygpypppddcppstelnggte 471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIGTRHHILACLCPEGFTGLYCESQMSQCTRPSPTPVTPRPPRSITLGTEPVSPTSLRVGL 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    472 hlgtrhhlaclopegitglycesqmgqqtrpsptpvtprpprsltlgiepvsptslrvql 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               406. QPYLQGSSVQ1 PSLPLTYRNLSGPDKRLVTLRLDASLAFYTVTQLRPNATYSVCVMPLGP 465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MCSPVPLLLPLLILIALGEGYQGCPSGCQCSQPQTVFCTARQGTTVPRDVPPDTVGLYVF 60
                                                            Birse CE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     - ----LRLPRLLLLDLSHNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  292 lt.triniqui riagirpodi ajasiqoidosnisidajaqdisgifpririlaaarnpi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOG INOVGELOWED WYRESHVELASTEETROHETENACKOLOOMAADFGGENATTITTATVET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       286 TRPVVPEPTALSSSLAPTWISPTAPATFAPSPPSTAPPTVGPVPQPQPQPGPPSTGTNGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TO OLITELE LA PATE LAQUERE LA TRANÇETI VIN EL ÇALPODISSILETE LEGLAAARIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Shi Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93.6%; Score 2935; DB 21; Length 723;
85.2%; Pred. No. 1.3e-178;
                                                            Moore PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                            Support DR,
                                                              Florence KA,
                                            BUSEL CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3; Mismatches
                                                                                                                                                                                                              ised is ford additions or preserrations
                                                                                                                                                                                                                                                      Findustre, Page 16-17; 716pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 ENGITMIDASSFAGI POLQLIDI SQNQIAS----
                                          Ni J, Komatschlis GA,
, olsen HS, Ebner R,
CHUMA ) HUMAN CHNOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 576, Conservative
                                                                                                                           WP1, 1000 647418/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         723 AA;
                                                                Laileur DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chemotaxis.
                                          Ruben SM,
                                                                                     Young PE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ...
                                          ###X#X####X#XF666666666666666666666666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          č
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    报
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         긢
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          担
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               招
```

3;

```
Monterane-bound polypeptide; PRC polypeptide; LML receptor; TIE liquad; pharmacoutical; receptor immunoadhesin; gene mapping.
542 | dt.[] | 
                                                                                                  526 RORAMAAAAQDKOQVGPGAGPI PLEGVKVPI BFGFKATBGGBALFSGSBFFV · · · FLMG - 5R2
                                         466. GPVPEGFFAGGEAHTFPAVHENHAPVTGARFGNFPLLJAPALAAVLLAALAAVGAAYCVR. 525
                                                       92. drapogezer reali producti per paregni paregni pala tata da sanagangan 163
                                                                                                              AAY66643 Standard; protein; 611 AA.
                                                                                                                                                                                                                                                                                                                                                   Membrane-bound protein PR01282.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0088740.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-0088810.
98US-0088811.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0088734.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0088741.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98DS-0088861.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0089440.
98US-0089512.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             daMo-u815525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0087507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9871S-0087609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0087759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-0088028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0088029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9800-2088040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5808-0088033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0088326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0088167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     980S-0088202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-008B212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              48HS-0088655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            380S-0088722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0088730.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9845-0088742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0088858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #8US-0088876.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0087827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9803-0088021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98fts-0088025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98US-0088217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98HS-0088H24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98US-0088825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         หมาร-กักหิหลวิธ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98US-0089105
                                                                                                                                                                                                                                                                                                                     05-APR-2000 (!!rst entry)
                                                                                                                                                                         :! (111111111
712 wp----qsplhakpyi 723
                                                                                                                                                         583 FPGPGLOSPLHAKPYI 598
                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      W09964088-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1998;
1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1998;
1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1998;
1998;
1998;
1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -6561-NIII - 666-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           998;
998;
998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      998;
998;
998;
998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               998;
998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        998;
448;
998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-10N-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-DEC 1999
                                                                                                                                                                                                                                                                                         AAY66643;
                                                                                                                                                                                                                                  RESULT 11
                                                                                                                                                                                                                                              AAY66643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            50000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-
05-
05-
05-
05-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2200
                                                                                                                           9
                                                                                                                                                         ò
                                                                   5
                                                                                                  Š
```

```
98US-0089514.
98US-0089538.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0095302.
98US-0095318.
98US-0095321.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0096757.
98US-0096766.
98US-0096768.
                                              4802-0089600.
9808-0089653.
                                                                                                      98US-0089948.
98US-0089952.
                                                                                                                                                                                 980S-0090441.
                                                                                                                                                                                                    98US:0090444.
                                                                                                                                                                                                                        98US-0090461.
                                                                                                                                                                                                                                 9808-3090472.
9808-0090545.
                                                                                                                                                                                                                                                              98US-0090540.
98US-0090557.
                                                                                                                                                                                                                                                                               98US-0090676.
                                                                                                                                                                                                                                                                                                                                                          98US-0090862.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0091633.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GRUS-DOG2182.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                980S 0092472.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98115-0044651.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-0095301.
                                                                                                                          98US-0050246.
                                                                                                                                    98US-0090252.
98US-0090254.
                                                                                                                                                      98US-0090349
                                                                                                                                                                98US-0090455.
                                                                                                                                                                                                                                                    98US-0090538
                                                                                                                                                                                                                                                                                                          0690600-8086
                                                                                                                                                                                                                                                                                                                                                 98DS-0090696
                                                                                                                                                                                                                                                                                                                                                                                      98115-0091360.
                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-0091628.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0091646.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98US-0091674.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0091978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4805-0095916.
4805-0045429.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0096143.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0096146.
                            98US-0089598
                                       6646800-Su86
                                                                   9811S-0089801
                                                                           98HS-0089447
                                                                                     8066800-SD85
                                                                                              98US-0089947
                                                                                                                                                                                                                                                                                         98US-0090678
                                                                                                                                                                                                                                                                                                  8890500-8086
                                                                                                                                                                                                                                                                                                                      980S-0090691
                                                                                                                                                                                                                                                                                                                              98US-0090694
                                                                                                                                                                                                                                                                                                                                       5690600-S086
                                                                                                                                                                                                                                                                                                                                                                              98US-0091358
                                                                                                                                                                                                                                                                                                                                                                                               98US-0091544
                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0091486
                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0091519
                                                                                                                                                                                                                                                                                                                                                                                                                                     98919-000-5086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-0095282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0095285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     48US-0095325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98115-0096012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98US-0096773
                                                                                                                                                                                                                                                                       -S086
16-JUN-1998;
17-7PN 1998;
17-JUN-1998;
                                                                                                                                                                                                                       1998;
1998;
1998;
                                                                                                                                                                                                                                                   998;
                                                                                                                                                                                                                                                                      1998;
1998;
1998;
                                                                                                                                                                                                                                                                                                 1998;
1998;
1998;
                                                      1998;
1998;
1998;
                                                                                                      1998;
1998;
                                                                                                                          1598;
                                                                                                                                                              1998;
                                                                                                                                                                         1998;
                                                                                                                                                                                 1998;
                                                                                                                                                                                            1000
                                                                                                                                                                                                    1998;
                                                                                                                                                                                                              1998;
                                                                                                                                                                                                                                                                                                                                                                                                18661
                                                                                                                                                                                                                                                                                                                                                                                                                  18661
                                                                                                                                                                                                                                                                                                                                                                                                                                              1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9.08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04 -AUG-1998;
04 -AUG-1998;
                                                                                     1998;
                                                                                                                                                                                                                                                                                                                                                                                                                            998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-And-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-AUG-1998;
17-AUG-1998;
                                                                                                                                             1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04 - AUG - 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12 - AUG - 1998,
                                                                                                                                                                                                                                                                                                                                                                                                                -Jmr.-1
                                                                                                                                                                                           -NIII
                                                                                                                                                                                                                                                                                                                                                                                      .HIII.-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04 - AUG -
04 - AUG -
                                                                 18 - JUN-
18 - JUN-
18 - JUN-
                                                                                                      JUN-
                                                                                                                                                                                                    -NIII.
                                                                                                                                                                                                                                                                                                                                         JUN-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04 - AUG -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-AUG-
                                                                                                                          JUM-
                                                                                                                                     -200
                                                                                                                                                      -NOC
                                                                                                                                                                                                                NOO
                                                                                                                                                                                                                        -NOC
                                                                                                                                                                                                                                                                                                                                                                                               JUL-
                                                                                                                                                                                                                                                                                                                                                                                                                                             02-JUL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04 - AUG -
                                                                                                                                                                                                                                                                                                                                                                              Ė
                                                                                                                                                                                                                                                                                                                                                                                                                                     Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-JUL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-JUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jul-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ē
```

```
receptor-liquid interactions. The membrane-bound proteins can also be capplyed for screening of potential peptide or small molecule inhibitors of the relevant leceptor/liquid interaction. The PRO envoking sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of the preparat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polynucleotides encoding them. The PRO sequences of the invention were identified based on extracelular domain homology screening. The PRO sequences have homology with proteins including LDI receptors. THE iligands and various encymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 rglrnlerlytgkomirbigpgarduldmiletkigdmelralpplmipmllildishns 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----IPIPPLLLIDLSHNS 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE HELLER HANDER HELLER HELT HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER HELLER 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hidels 127, Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MCSRVPLLLPLLLLLALGPGVQGCPSGCQCSQPQTVFCTARQGTTVPREVPPLTVGLYVF 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Smith V, Watanabo CR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               86.5%, Score 2712.5, BB 21, Length 611, 79.5%; Pred. No. 1.5e-164;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention provides membrane-bound PRO polypeptides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Membrane-bound proteins and related nucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          c, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chen J, Goddard A, Gurney AL,
Yuan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 ENGITMIDASSEAGLEGIDDISONOTAS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      claim 12; Fig 42; 822pp; English.
                                                                                                                                                                                                                                                                                                          98its-0096959.
                                                                                                                                                                                                                                                                                                                                              98115-0096960.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0097978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    980S-0098014.
                                                                           48IIS-ÜÜ4689].
                                                                                                                                                   98US-0096895
                                                                                                                                                                                                                               98US-0096949.
                                                                                                                                                                                                                                                                                                                                                                                      980S-0097022
                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0097218.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1962600-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4811S-0047455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0097971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        980S-0097986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98US-0098525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            48US-0100644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0115565.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-0097651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98UE - 0097952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-0097954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               by recombinant techniques.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 79.5
Gs 535, Consertative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI: 2000-072893/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 611 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB: AA264959.
                                                               17-AUG-1998;
17-AUG-1998;
17-AUG-1998;
                                                                                                                                                                                                                               1998;
                                                                                                                                                                                                                                                                                                          . 866
                                                                                                                                                                                                                                                                                                                                              1998:
                                                                                                                                                                                                                                                                                                                                                                                  1998;
                                                                                                                                                                                                                                                                                                                                                                                                                      19661
                                                                                                                                                                                                                                                                                                                                                                                                                                                      18661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 668;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-AUG-1998;
26-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-AUG-1998;
16-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Baker K.
                                                                                                                                                                                                                       18-AUG-1
18-AUG-1
18-AUG-1
18-AUG-1
18-AUG-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - AUG-
                                                                                                                                                                                   17-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26 - AUG -
                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 - AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 - AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                      9-AUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ें
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
```

```
465
                                                                                                                                                                                                                                                                                                                                                                         405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LLALLERS FLOTANVEALIREACHSTSGULDRSLESRERNEHDLIVSDNGLERVIPVIRGERG 165
                             LTBLELAGNERTAGERFEIDLAGLAALQEGEVSMESTQAGEGGLSGGFFRERLAAAARRIF 225
                                                                                                                                                                       241 itririaquitriaqirpodlaqiaalqeldvsnislqalpqdlsqifpririlaaarnpt 300
                                                                                                                                                                                                                                226 NOVOPISMFORWARDSHVTLASFEDTRCHFFFKNAGRIJJELOYADFÖCFATTTTATVPT 285
                                                                                                                                                                                                                                                                                                                                              286 TRPVVERPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTV@PVPQPQPQDCPPSTCLNGGTC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 hlgirhilaricpegfiglynsgryggippeptpripper!flgioprapicled 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       166 GRVPPOFESCORAHTEPAVIGNIAPVIQARBGNIFILLAPPALAAVILAALAAVGAAYOVR 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      526 PORAMAAAAQDYCQVGPGACTITTE POVKVPI EPITPRATEGGGEALPSGSB79914.MGFPG 585
                                                                                                                                                                                                                                                              A46 HIGTRHULACH COPGETGLYCPSOMGOGTRPSPTDVIDRODRSTTLGTEDVSPISLRVGL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A 22 SEXT AGS, MOLESCELETA BRIGGET PREVIOUS PARA ATMENDIQUES HATTEN COMPAGE THE LITTLE FILLE FOR THE COMPAGE TO SERVICE FOR THE S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ------vhsnhapvtqareqnlplliapalaavilaalaavqaayevr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "fibionectin type [1] demain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "leucine-rich region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "leucine-rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Tencine rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "leucine rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "leucine rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "loucine-rich repeat"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "leadoine-rich repoal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A leading rich surface dlycoprofein (URSG).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "PCP-like domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    heuchne rich surface glycoprotein; LRSG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "signal peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB07441 standard; Protein; 493 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181 grylqqssvqlrslrl-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20.
.'note
. 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               290..310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     410..442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        461..636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . 264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8..310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       865 IAdaVHidSCTSd 986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'note.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 OCI 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB07431;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Doma in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAB07431
                                                                                                                                                                          를
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ġ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                 Š
```

```
4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   111 PGILDTANVEALFLAGLGIQQIDFGLFSFLFNLHDLJVSDNQLEFVFPV1FGLFGLTFLF 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67 Uldvycfaylpylqlidisquyitsipyyifqpivnlsmlditanklheismetffglfr 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              127 (1971) | 1111 | 1111 | 1111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17) LAGUTPTAQL PPEDLAGLAAT QELIVSNISIQALPGDISGLEPRIRILAAARNPENGVCP 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23.) I SWEGPWVRTSHVTI ASPEETRGBEFPRNAGPLI LPLDYADFGGTATFFTATVETTERVV - 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             291 REPTALSSSTAPTWI SPTAPATRAPSPPSTAPPTVGPVPQPQPQPPPSTCLNGGTGHLGTR 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 35) HILLACLOPECETGLYCESQMGQGTEPSPTEVTPRPPESLILGIEPVSFISLKVGLQRYLQ 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.11. OSSVQI KSI RUTYRNI,SGPIKKELVTI BILBASI APYTVI ÇI PPNATYSVTVMELGEGEVPEL 470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40; Indels 258; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6. PLITPLITITALAPAVĢGPPSGPQPSQPQTVECTARQGTTVPROVPROTVSLYVFFNSTT 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents a leucine rich surface glycopratein (LRSG) - Modulators of LRSG can be used to treat disorders characterized by aborrant LRSG protein or nucleic acid expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polypeptides used in diagnostics and servening assays to identify modulators used to treat LRSG associated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or activity, the iMSS proteins can be used to treat disorders associated with insufficient or excessive production of LRSS, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LRSG target molecules, LRSG proteins and antibodies specific for
it are used in screening assays, diagnostic assays, prognostic
assays for monitoring clinical trials and in pharmacogenetics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New Tempine-rich surface glycoprotein (LPSG) polynucleofides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53.3%; Score 1672; DB 21; Length 493; 53.3%; Pred No. 1.8e 98;
                                        "transmembrane domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                         (MILL.) MILLENNIUM BIOTHERAPEUTICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    307 lswigpwyrenhyvlaspeetrch.....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ----SVIĞNÜSTÜTTÜ ÖLEN ÖLEN ÖN ÖLÜ BE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Maim 9; Fig 3; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99W0-11908792
                                                                                                                                                                                                                                                                                                                                             บริชิย ภูติบ รูซิเซิย
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
577..600
/note "t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-482823/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                493 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAA58767
                                                                                                                    W0200042170-A1
                                                                                                                                                                                                                                                                     21-APP-1999;
                                                                                                                                                                                                                                                                                                                                                 21 APP 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Holtzman DA;
                                                                                                                                                                                            20 - JUL 2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 356;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sednence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [ 850]
        Вота і п
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
        × =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>a</u>
```

```
proliferation regulator, differentiation regulator, non-malianant tumour; immune disorder; autrimmune disease, transplant rejection, albergy, ADS; infection; inflammatory disease, attentis; bacmatopolicie disorder; skin disorder, cardiovascular disorder, atherosclerosis; restenosis; neurological disease, Alzheimer's disease, trauma; wounding; septial evoid injury, skeletal disorder, ergostalic, immunosciperosis; anti-HIV; anti-inflammatory; anti-artheritie; anti-arteriosclerotic; neuroprotective; vulnerary; anti-allergie; anti-microbial; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proteins of the invention are either secreted or membrane associated proteins and act as regulator of cellular proliferation and differentiation, sECX proteins or nacleotides are useful for diagnosing the presence of, or predisposition to, a disease associated with aftered levels of SECX proteins and uncleatibes. The SECX proteins are also
471 GEBAGGBAHTPPAVHSNHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYTVRRGRAM 540
                                                                                        367 gecaaggaantsqayrsshapytgarognlplliapalaayllaylaaqaayyyrrafa. 425
                                                                                                                             531 - AAAAQIPKGQVGPGAGELELEGVKVELEEGERATEGGGFALEGGSPCEVPEMFEDPGLQS - 590
                                                                                                                                          Nevel human membrane assectived or secreted polypeptides and polynucleotides useful for diagnosis, prevention and treatment of pathological states such as cancer, immune, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequences AAR23029-823048 represent human SPOX protoins. The SBOX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SECX protein; human; secreted; membrane-associated; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Human SLIT protein-like splice variant, SECX 3352358-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Encoded by TGA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                 AAR23933 standard; Protoin; 694 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /label= unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Fig 5; 151pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dermatological; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-MAP-2000; 2000W0-US06280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000018-0123667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7693 TO SHEE
                                                                                                                                                                                                                                                                                                                                                                                                        16-JAN-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neurological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WFI; 2000-594318/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Misc-difference 654
                                                                                                                                                                                                    591 PLHAKPYI 598
                                                                                                                                                                                                                                      486 vlpakhyi 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAA93620.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WOLDOOD53742-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IT MAKE THEFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OR-MAP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Shimkets RA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14 SEF 2000.
                                                                                                                                                                                                                                                                                                                                                                     AAB23033;
                                                                                                                                                                                                                                                                                                RESULT 13
                 331
                                                                                                                                                                                                                                                                                                               AAB23033
                                                                                        CD
                                                                                                                                                                                                                                                                                                                                                                                                        ä
                                                                                                                              े
                                                                                                                                                                                                      ò
```

577 aatsaaataapsq 589

screening tissue cultures for fontamination. Diseases that may be treated or prevented using SECX proteins or nacleutides include cancer (e.g., colorectal carcinoma, prostate cancer), benign tumours, immune disorders useful to screen compounds that modulate SPTX artivity of expression. The interaction of a SECX protein with other cellular proteins may be useful to modulate the activity of a partner protein, cellular proliferation, cellular differentiation and cell survival. SECX musticulaes are useful for the recombinant expression of SECX protein, and may be used detect SECX expression of SECX quoie. They may also be used to modulate SECX expression (e.g., using antisonse of gonocleotides). SECX nucleic acid sequences are also useful for identifying a cell or tissue type in a biological sample, and in forensie biology. SECX primers or probes are useful for detecting the presence of SECX nucleotides and for (including autoimmune diseases, transplant réjection, allergies, ATDS), infections, inflammatory disorders, arthritis, hacmatopoietic disorders, selve disorders, arthritis, art disorders.

Sequence 694 AA;

qq

9

10.7%; Score 337; DB 21; Length 694; 23.6%; Pred. No. 2.2e-13; Fre 77; Mismatches 241; Indels 206; Caps 179 GEPPEDLAGLAALQPEPVSYLSLQALPSPLSGLFPBLBEFAAA BYFPRCYGFLSWFG 235 256 Liernaidglaslyelnlahnnissiphd---iftplry/yelhihhnpwnododilwla 312 236 PWVRESHVTLASFEETRCHFFFRNAGRILLELDVADFGCPAITTTAIVP11RPVVREFIA 295 pfimdaprdlm 364 955 TIBAPSTE SPITAPSTER STANDITVG PVELLE GITTPPSTE 339 365 segrmaelkortppmssvkwilpngtrishasrhprisvirdgtinfsbylsdtgvyte 424 --LNGGTCHLCTRHHLACLCPEGFTGLYCESQMGQGTRFSFTFVTF-- 383 425 mgtmyagnsnasaylngstaelntsny \cdots sffttgtgtgetteispedttrky 473 54 TVGLYVFENGITMLDASSFAGLPGLQLLDLSONOIASLR-----LPRLLLLDLSHNSLL 107 137 itagifejiskirelalinapiesipajataripsim idigelikle, isegafegil 136 313 wwlre-yiptustoogrohapulumagaglacidgaalgaa Consernating Local Similarity 108 ALEPGILDTAN --296. LSSSI AP Matches 159; Query Match Best Local c:

qq

q \ddot{c} The presence of the process of the second assertance of the presence of the presence of the presence of the second and nucleotides. The SECX proteins are also useful to screen compounds that modulate SECX activity or expression. The interaction of a SECX protein with other cellular proteins may be useful to modulate the activity of a partner protein, cellular proliferation. Cellular of inferentiation and cell survival. SECX nucleotides are useful for the recombinant expression of SECX protein, and may be used to shoulate SECX expression (e.g., using antisense oligometicutides). SECX nucleic acid sequences are also useful for identifying a cell or tissue type in a biological sample, and in forensic biology. SECX probes are useful for detecting the presence of SECX nucleotides and for

384 RPPRSLTLGIEPVSPTSLPVGTQPYLQGSSVQLPSLPTYPNLSGPDKPLVTLRLFASLA 443

a

Š

ô

a ò

õ

444 EYTVTÖLRPNATYSVCVMPLGPGRVPEGEEACGEAHTPPAVHSNHAPVTQAREGNLPLLI 503 506profile with the state -----tidkmgtsidevmktik----ii 529 504. APALAAVLIAALLAAVGAAYCVRR====3HAMAAAAQOKGQVGBGGBG HIJGGVKVPDEPGP= 560

qq

561 KAIEGGGEALPSG 573

474 kpyptisigyapaytisitylig................tirypkgya 505

differentiation. SECX proteins or nucleotides are useful for diagnosing Sequences AAB23629 B23648 represent haman SECM protection. The SECM proteins of the invention are either secreted or membrane associated proteins and act as requision of evilular proliferation and

Diseases that may be treated

screening tissue cultures for contamination.

or prevented using SECX proteins of nucleotides include cancer (e.g., colorectal carcinoma, prostate cancer), beingn tumours, immune disorders (including autoimmune diseases, transplant rejection, alterques, ABBS), inference, and harmatopoietic disorders, skin disorders, eardinosecular disorders, atheroselerosis, restenosis, neurological diseases (e.g., Alzheimer's disease), trauma (e.g., surgical or traumatic wounds, spinal cord injury), and skeletal

proliferation requision differentiation regulator, non-malignant tumour, france diserder, not finance diserder, remarginat velection alorgy A193 shift diserder, including has a description of the diserder, skin diserder, defendable restences neurological disease A100 months disease training wounding, and the disease training wounding, and the disease disease training wounding, and including disease training wounding, and including and including and and articles and and articles and and articles and articles and and articles and articles and and articles articles articles and articles articl polynaciestibes uscial the district, prevential and treatment pathological states such as cancer, immune, cardiovascular and neurological disorders. Novel human membrane associated or secreted polypeptides and SECX profein, human, secreted, membrane-associated; cancer; Hamman SLII protein like aptice cartant, SEGN 3352359 2. AAB23034 standard: Protein; 590 AA. Claim 1, Fig 6, 151pp, English. dermatological; gene therapy. 09-MAK-ZÖUÜ; ZÜÖÜWO-USU6280. 99US-0123667. 08 MAR 2000; 2000US 0123667. 16-JAN-2001 (first entry) (CURA-) CURAGEN CORP WPT: SOUND-EGASTOZ56. N-PSDB; AAA93621. WO200053742-A2. 09-MAK-1999; Homo sapiens. Shinkets EA; 14-SEP-2000. AAB23034; 14 AAB23034 KESULI

```
54 FVGLYVEENGTIMIDASSFAGLPGLQILINLSQNQTASIB-----I-PPILLIJDLSHNSII. 107
                                                                                                                                                                                                                                                                   ·VEALPLAGLG····LQQLDEGLFSELR 141
                                                                                                                                                                                                                                                                                                                                                         137 vipaqafeylaklrelwirnapicsipsyafnrvpslmridigelkkleyisegafegif 196
                                                                                                                                                                                                                                                                                                                                                                                              - LHDLDVSDNQLERV PPVTFGLRGJTRIFLAGNTFIA 178
                                                                                                                                                                                                                                                                                                                                                                                                                               197 olkylnigmenikdmpeltplygleciemsgebtpeirygsCalssikklwvn-najvs 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    179. QLEPPTLAGI AALQEI DVSNI SLQALPGPLSGLEPPLELLAAA···ENPENCVOFLSWFS 235

    IMESPIAPA-IEALSPERIAPITAGEVIQE ----QDCFFSIC 339

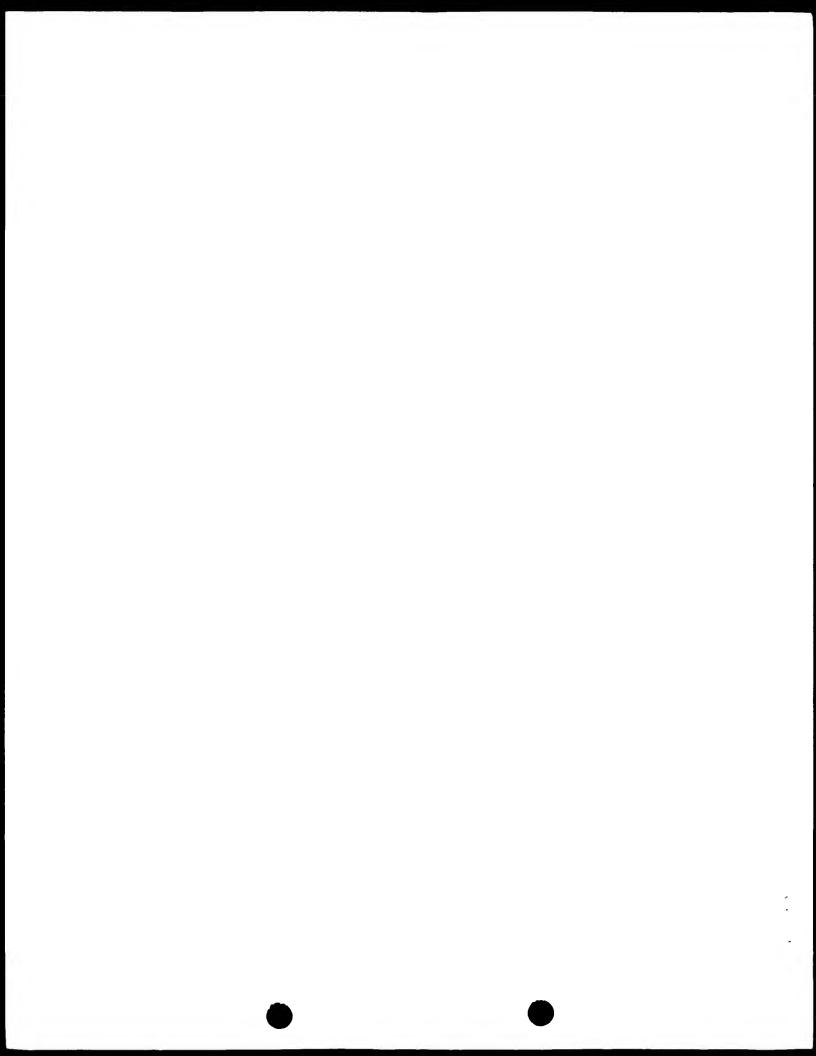
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sffttgtgetteispedttrky 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            236. PWVPESHVT(ASPEPTROHEPPKNAGRI (LELDRAGPGGFATTTTATVETTREVVEEPTA (195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        365 segrmaelkrttppmssvkwilpngtvlshasrhprisvlndgtlnfshvllsdtqvytc 424
                                                                                                                              Matches 136; Conservative 60; Mismatches 187; Indels 126, Gaps
                                                                                                                                                                                       LALGEGVÖĞCI SƏCÇISI ÇEÇIVELIAKÇĞI IVEKEVEEDI 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Buran: chromosome mapping; gene mapping; gene therapy; forogene), food supplement; medical imaging; diagnostic; genetic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ---LNGGTGHLGTRHHLACLCPEGFTGLYCESQMGQGTRESFTPVTF
                                                                                         10.6%; Score 333, DB 21, Length 590, 25 8%; First N. 3.3--13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  425 mqtnraqnsnasaylngstaelntsny----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel human diagnostic protein #4818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABG04827 standard; Protein; 526 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :| : | :| || || :| :| || || 471 kpypttstgygpayttstvlig 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   384 RPPRSLTLGIEPVSPTSLRVGLQ 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tang YT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-MAR-2001; 2001WO-US08631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-2000; 2000US-0540217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000005-0649167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-FEB-2902 (first estry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Drmanac RT, Liu C,
                                                                                                                                                                   7 LLIPLELE-----
                                                                                                           Best Local Similarity
                                   590 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                    OR ALPPOLLDYAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W0200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-AIIG-2900;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-OCT-2001.
                                       Sodirence
disorders.
                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABG04827;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESOLT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BG04827
                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                                                                 â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ć;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                               <del>2</del>
                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <del>2</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ċ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
```

```
The invention relates to isolated polynacheotide (1) and polypeptide (11) sequences. (1) is useful as hybridisation probes, polypeptide (11) sequences. (1) is useful as hybridisation probes, polymerase chain reaction (pvp) primars, oligomores, and for chromosome and gene mapping, and in recombinant production of (11). The polynacheotides are also used in dagnostics as expressed sequence tags for identifying expressed genes. (1) is useful in gene therapy techniques to restore normal activity of (11) or to treat disease states involving quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (11) and its binding partners are useful in medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving abortant pr tein expression or biological activity. The polypectide and polynomicalide sequences have applications in disposities, forensies, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess birthwessity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and to produce other types of data and products dependent on DNA and action actor sequences. AlsocoloraRatary, represent covel human diagnostic amino acid sequences of the invention.

Meter The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPPD at fip.wipe.int/fout/isbel_pet_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              65 TMEDASSFAGEPGLEGLED SONOT----ASEPTEPPELEED SHINSLALEPGIEDT [16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 qalgppdfrnmtglvdltlsrnaitrigaratgdleslrslhidqnqaqqaqhpralrqp 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       117 ANVEALPLAGLOLOGIQUIPEGLESE LENTHINI DVSPAQLEBVP-PVTPGLPGLPGL91AGN 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        226 NOVOPI SWPOPWVPESHVTLASPEPTP - CHPPPKNACPLI LEI DYADPGOPATTTTATVP 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     285 TTRPVVREPTALSSSLAPTWLSPTAPAT---FAPPSPPSTAPPTVGPVPQ------PQIXPP 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        280 -----eppliarhtgrlwvleggratlreralgdpaptmhwygpddrlvynssrarat 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    336 PSTCLNGGTCHLGTRHHLACLG~~PFGFTGLYCE-----SOMGOGTRPSPTPVTP 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            333 pngtleigytgagdaggyteiatnpageatarveirvlalphggnssueggrpupr--ts 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3.84 PEPPSTTT GTEPVSPTSLPVCLOPYLOGSSVQLPST PLTYPNLSTPLKFLVTT.PLPASLA 44.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nssedelllyrivpassh 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 444 EYTVTGIJPDNATYSVCVMPIJGPGPVPPGPFA-----OGEAHTPPAVHSNHAPVTQAREGN 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TIAAAPNPP 225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels 126; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 ILEPLILLARGEGYÖGGESGGC---SQPQTVFCTARQGTTVPRDVPPPTVGLYVFENGT 64
                                                                                                           New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forexsics, gene mapping, identification of mutations respectible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            238 hencellwlr----rlarpddletcasppglagryfwaypegetse-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 68, Severato, DB DD, Longth 526;
26:98; Pred. No. 3:3e-13;
tive 53; Mismatches 256; Indels 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           175 TRIAGEPPEDLAGEAALOBEPVSNI SLOAI PSPT SGI PPPEF
                                                                                                                                                                                                                                                          Claim 20, SEy ib No 35186, 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 160, Conservative
                       2001-639362/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                     N-PSDB; AAS69014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        391 ppplal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27
```

- 419 hfilkhlypgadydiolialspaagpsditatrilgcahfstlpasplohalgahviggt 478 Q O
- Qy

Search completed: September 17, 2002, 09:51:20 Job Lime: 1837 sec



```
GenCore worsign 4.5
Copyright (c) 1993 - 2000 Compugen Lid.
```

OM protein - protein search, using sw model

. Statch time 11.5 Records (without alignments) 1007 345 Million cell appates/see September 17, 2002, 09:26:23 Run on:

US-09-944-396-69

1 MCSRVPLLLPLLLLLALGPG.....PLMGFPGPGLQSPLHAKPYI 598 Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0 5 Scoring table:

231628 seqs, 24425594 residues Searched: otal number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Listing first 45 summaries Maximum Match 100% Post-processing: Minimum Match OR

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		æ				
Result No.	Score	Query Match	Length DB	1913	ID	Description
	3083.5	98.4	673	. 4	US-09-063-950-2	Sequence 2, Appli
CI	322	10.3	605	4	-09-06	un.
~	302	9.6	605	_	US-08-190-802A-49	Sequence 49, Appl
4	302	9.6	605	4	47	4.9
LC:	302	9.6	605	4	US-08-473-089-49	6.4
9	298.5	9.5	649	~	US-09-188-930-305	305,
7	281.5	0.6	603	-	US-08-190-802A-50	Sequence 50, Appl
x	281.5	9.0	603	4	US-08-477-346-50	C U
*	281.5	0.5	603	₹	US-08-473-089-50	Sequence 50, Appl
=	n	αn L	2.00	~	9 481-986 BC 50	,
11	259	e. œ	610	-		9
=	553	 ∞	019	, .		٠.
~	259	30	610	,	US-08-135-929A-11	Sequence 11, Appl
14	259	a)	610			
1.5	258	€1 30	60 61 61	<-	US 09 182-024A 2	ci
16	255.5		1480	~	6-649-161-60-sin	۲۰
17	255.5	8.1	1480	4	US-09-540-245A-7	7
81	L)	 œ	1480		010	7
16	2,55 1,55 1,50 1,50 1,50 1,50 1,50 1,50 1	 œ	1480	<₽	US-09 182 024A 5	Sequence 5, Appli
C; 7	9. 13. 13. 14.	် သ	1480	L:	FCT US91 09055 2	ci
2.1	247.5	5.6	1.0 1.0 1.0	~-	05-09-191-647-2	ci
(1 (1	⊒ 243 E	c r	T C L C	٠-	115-00-246-51cV	ci
61 64	247.5	G	100 H	٠.		c i
-# - (4	244	æ. r.	703	₹‡	US-09-131-648-2	Sequence 2, Appli
,1 (.)	54°	L. L.	560	۳.	80	Ċ,
97	240	Γ.	COL	~		Separation 2, April 1
27	240	1.7	560	4	US-09-063-950-4	4

[36] DESYVERPONAL SERVICE STATEMENT AND REPORT TO SERVICE STATEMENT OF THE SERVICE STATEMENT OF

. 7

segmente 2, Appl	٠,	7,	6	j.	5	Sequence 5, Appl	5	ร์	Segrence 2, Appli	Sequence 2, Appli	Sequence 183, App	quence 4, Appl	Sequence 6, Appli	quence 1, Appl	Sequence 3, Appl	æ,	Patent No. 5440934
56	Sec	Sec	Sec	553	Se	Sec	.0	Sec	Sc	Se.	Sec	Se	Se	Se	Sec	s.	Fat.
PCI-US94-07641A-2	PCT-US91 09055-4	US-08-986-485-7	US-09-191-647 9	US-09 540-245A-9	US-09-540-153-9	PCT-US91-09055-5	US-08 658 136 5	US-08-986-485-5	US 00 986 405 D	05-08-460-751-2	US-09-188-930-183	PCT-US91-09055-4	PCT-US91-09055-6	US-07-613-083B-1	£ 8€€-£u+:80-Sii	08-08-458-834-3	5340934 2
Ľ"	Ľ*	~	~~	ν.,.	÷	ı:	~	~	~	C)	4	ц	ľ.	_		4	¢
56.0	C1 C1	231	735	735	735	196	000	1091	1101	4303	771	224	196	320	368	368	368
r ·	7.5	L- C.	7.7	C1	 	7.1	ť,	6.7	9.9	υ. Ψ	6.3	6.2	5. 5.	ტ. დ	L. 1	5.7	5.6
0 1 1	236.5	236.5	225	E1	225	222	F. 0.5	209	296.5	263.5	196.5	193.5	186.5	184	179	178	175
a:	an Ci	Ç	<u>,</u>	₹	÷ ;	3.4	gir rar	÷6	<u>6</u> :	3.8	39	40	-	4.2	~	44	45

ALIGNMENTS

```
THILE OF INVENTION: NOVEL LESG PROTEIN AND NUCLEIC ACTO MOLECULES AND HEFF THILE OF INVENTION: THEREFOR
                                                                                                                                                                                                                                                          624 POPAMAAAAGGYAQAAPAAPI PLEBYYVPEPPPRATBOORAN PARAPEYENTIANFILLI BELLITTI HILLIH HILLIH HILLIH BAAAAAQBAAAQDKAQVQBAAPILEBGYKVPLEBGPKATFAAABALESASECEVPLMSPPG-601
                                                                       406 ORYLOGSSVQLPSLPLTYPNLSGPDKRLVTLRLPASLAFYTVTQLRPNATYSVCVMPLGP 465
                                                                                                                                                                                                                                    446 GRVPPGPEACGPAHTPPAVHSNIIAPVTQAREGNLPLLIAPALAAVLLAALAALAAVSAAYCVR 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               156 VP-PVIKGLEGLIFFURLAGNTRIAQLEPEDIAGLAGIAALIGELIAVSNLSLQALPGDLSGLEPR 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  461 TRPVVREPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTVGPVPQPQPQDCPPSTCLNGGTC 420
                                              446 HEXTERHULATIOPEGFIGLYCESQMCQGTRESPTPVTPRIPRSLTLG1EPVSFISILRVGL 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99 IDESHINSILALERGILDTANVEALELAGIG----LQQLEEGLESRLPNIHDLDVSENQIER 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97; Indels 40; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 LLLPLLLL--LALG-----PGVQG-----CPSCCOCSQPQ----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 LALALLILSWVALGPRSLEGAEPGTPGEAEGPACPATCACSYDDEVNELSVFCSSRNLTR 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46 VPRDVPPDTVGLYVFENGITMLDASSFAGLPGLQLLDLSQNQIASLRLPRLLL-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Egging 422; 1844; Length 505.
Pred. No. 2e-15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    215 LRLLAAARNPENCVCPLSWPG----PWVRESHVTLA 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   244 LOKLYLDRNLTAAVAPGAFLGLKALRWLDLSHNRVA 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        34; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/063,950C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 49, Application USZC8190802A Patent No. 5519003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5, Application US/09063950C
Patent No. 6225085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT FILING DATE: 1998-04-21
NUMBER OF SEQ ID NOS: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Holtzman, Douglas A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36.28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 100; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Papio hamadryas
US-09-063-950-5
                                                                                                                                                                                                                                                                                                                                                                                                                       586 PCLUSPERARPYT 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661 PGLQSPLHAKPYI 673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: MEI-019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL, INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08 190-802A-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5-056-190 60-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ 1D NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KESUI, I
                                                                                                                                                                                                                                                                              <u>2</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                          3
                                                                                                                                                                                                                                      Ś
                                                                                                                                                                                                                                                                                                                                                                      qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                 ŝ
```

```
99 IDESHWELLALEFGIIDTANVEALKLAGEG – EQQEDECHFSRERNEHFIDVSDNÇLER 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          127 EHEBENGERSEALOTE ARTEALASIGESIANICISED POSTERIARIAMISTANIAN 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  156 VP-PV1RSLRGLTFLRLAGNTFLAQLRPEDLAGLAAJ GFLJVSNI SI QALFONI SOLFPR 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels 40: Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68 LPDGVPGGTQALWIJGNNIJSSVPPAAFQNIJSSTÆFTNIJGGGQLGSIJE-PQALJGUENLÆH 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 LLLPLLLL--LALG-------PGVQG-------CPSGCQCSQPQ-----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46 VPPDVPPDTVGLYVPPNGTFMLDASSFAGLPGLQLLDLSQNQTASLRLPPLLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.68; Score 402; DB 1; Length 605; 35,78, Pred, 47 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Insulin-like growth factor binding protein complex, Fig. 32
. .. .mvENTION: WD-40 Borized Peptides and Uses
NIMPRE OF SPOIFWARE THEREOF
                                                                                                                                                                                                                                                                                                                     Patentin Felease #1 0, Version #1 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  215 LELLAAARNPENCVCPLSWPC--*-PWVPPSHVTLA 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40; Mismatches
                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER - HS/08/150, R02A
FILING DATE: 01-FEB-1994
                                                                                                             E: Deblinger & Associates
P.O. Box 60850
                                                                                                                                                                                                                                                                           COMPUTER: TRM PC Compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 49, Application US/08477346
Patent No. 6262023
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mochly-Rosen, Daria
                                                                                                                                                                                                                                                                                                                                                                                                                                                              34,875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFHONE: (415) 324-0880
TELEFAX. (415) 324-0960
INFORMATION FOR SEQ ID NO: 49:
                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                          Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   605 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HEFFRENCH TROOTERS NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Fabian, Gary R.
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SPONENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPQLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                 COMPUTER READARLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                     2.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INDIVIDUAL ISOLATE:
INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rest Local Similarity
Matches 98, Conserv
                                                                                                                                                                                                                  94306-0850
                                                                                                                                                         Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGINAL SOURCE:
                                                                                                                                                                                                                                                          MEDIUM IYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-190-802A-49
                                                                                                                 ADDRESSEE:
                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-477-346-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                     SOFTWAPE
                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                        STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

```
68 LPDSVRGGTGALMINGNNILSSVPPAAFONILSSIGFLAFINIQGGGGSLF-PQALEGLENICH 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99 LDLSHNSLLALEPGILDTANVEALPLAGLG---LQQ10PG1FSP1RNLHDLDVSDNQLER 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           127 LHLERNQLRSIALCTF--AHTPALASI.GI.SNNRI.SKI.EDGI.FEGI.GSLWDI.NI.GWNSLAV 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           156 VP+PVTRGLRGLTRLRLAGNTRTAQI PPFDLACI AALQPTTVSNI SLQALPGDLSGLPPP, 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       indela 40, Supa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 LALALLLSWVALGPPSTEGADPGTPGEAEGPACPAACVCSYDDDADELSVEGSSENLTR 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46 VPRDVPPDTVGLYVFENGITMLDASSFAGLPGLQLLDLSQNQ1ASI.RI,PRLI,L----- 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 LLLPLLLL--LALG------PGVQG-----CPSGCQCSQPQ-----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 25.5%; Pred. No. 5.40 14,
Matches 98, Conservative 40, Mismatches 98, indels o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INDIVIEWAL ISOLATE. Insulin like growth factor binding INDIVIEWAL ISOLATE: protein complex, Fig. 32
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WD-40 · Derived Peptides and Uses
TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25
CUPPENT APPLICATION DATA:
APPLICATION UNBER: US.00.4177,347
FILLIG DATE: 07-JUN-1995
CLASSFFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               215 LRLLAAARNPFNCVCPLSWFG----PWVRESHVTLA 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  244 LOKEYEDBNEIAAVAPGAFEGEKALRWEDESHNRVA 279
                                                                                                                                                   2000 Pennsylvania Avenue, NW
                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Fioppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC:PGS/MS:FAGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) sequence 49, Application US/08473089
) Patent No. 6342368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487.072
FILING DATE: 07 JUN 1995
ATTORNEY, ACTUME TREOPMATICAL:
                                                                                                                              Morrison & Foerster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPERPONENCE OF NOMBER: 29,959
LECOMMUNICATION NOMBER: 055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
INFORMATION FOR SEQ ID NO: 49:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: MURASHIGE, KAIE H.
REGISTEATION NUMBER 29,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 605 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                CORRESPONDENCE ADDRESS:
                                                                           NUMBER OF SECUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unknown
                                                                                                                                                                           Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amino acid
                                                                                                                                                                                                                                                    20006-1812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ွ
                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   URCE
                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-473 089 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANTI - SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-477-346-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POPOLOGY:
                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                        STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESUL1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
```

```
<u>68 TEPGVPSGTGALWIJARNIJSSVPPAAPONIJSSIGPLATGGSGLASIJE PQALIJGLPNIJGH 126</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99 I.DI.SHINSI.LALEPSTI.PTANVEALPLAGI.G---LQQI PPGLESPI.PNLHDLDVSDNQI.ER 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              156 - VP - PV I RCI PRI TPILRI AGNTR (AQT R PEDITAGI AALQELDVSNI,SLQALPGDI,SGL,FPR - 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 ILLIPILLIL - LALG - - - - POVQG - - - - CPSGCQCSQPQ - - - - TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 LALALLILSWVALGPRSLEGADPGTPGFAFGPACPAACVCSYDDDADFLSVFCSSRNLTR 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.6%; Score 302; DB 4; Length 605; 
35.5%; Pred. No. 5.4e-14;
tipe 40; Mismatches 98; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        46 VPRDVPDESTVOLYVPPHOLITMLDASSPACEPOLQLEFEQNQIASEREPRELEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INDIVIDUAL IS GATH. Than the growth fastor binding INDIVIDUAL ISGATE: profein complex, Fig. 32
             APPLICANT: Mochly-Rosen, Daria
APPLICANT: Ron, Dorit
TITLE OF INVENTION: WE 40 Derived Paptides and Uses
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 265
                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: PC-1865/MS-1005
GOTTWARF ESTABLE PLASS #1 P V-185118 #11.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          244 LQKLYLDENLTAAVAPGAFIGURALPHULASHNEVA 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 215 LRLLAAARNPINCVCPLSWFG--- PWVRESHVTLA 246
                                                                                                                                                                       ž
                                                                                                                                              ADDRESSEE: Morrison & Foerster
STERET: 2000 Pennsylvania Avenue,
                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA: APPLICATION STREET, USTOR, 473,089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Acquence 302, Application 80,09188930A Fatest No. 6150502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RECISTRATION NUMBER: 29,959
RECISTRATION NUMBER: 29,959
RETURENOLOGY OF STREET
                                                                                                                                                                                                                                                                                                      S. Flapp dist
IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (202) 887-0763
INFORMATION FOR SEQ ID NO: 49:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (202) 887-1500
                                                                                                                                                                                                                                                                                                                                                                                                                              796 [ - NOT - 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          605 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Comservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amino acid
                                                                                                                                                                                            Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
GENERAL INFORMATION:
                                                                                                                                                                                                                                                         20006 1812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGINAL SOURCE:
                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ွ
                                                                                                                                                                                                                                                                                                      MEDIUM TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DAIE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-188-930-305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ,
98,
                                                                                                                                                                                                                                                                                                                          COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-473-089-49
                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGIH:
                                                                                                                                                                                                                STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   يَ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     립
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Óλ
```

```
206 IDGNIJANHGIGDKVFFRIVANITEISIARNSIJAAPVNIPG-TSLEKIJYLQDN-HINRVP 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          424 PVKV-NVRGIMCQAPEKVPGMAIKDLSAELFDCKDSGIVSTIQIT-----TAI---- 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         357 CHEGETGLYCESQMGGGTRFSFFFVTFRFFRSLILGIEFVSFFSLRVGLQRYLQGSSVQL 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             148 GAFRDSNYLRLIFLSRNHUSTIPGGIPPT--IPEURLDDNRISTISSPSLJGGTSLKPLV 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127 -- -- LCLQQLDEGLESRLENI HOLDVSDNQLEPVPPV FPGLPGLTPLPLPLAGNTRIAGLE 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 182 PEDLAGLAALQFLDVSDLSLQALPGDLSGLFPRERELAAARNPFNGVGFLSWEGEWVRES 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 264 FNAPSTIRQIFFILMSNNNISKILIQG FFIDENNITGFILLFNNBWYGGERMKWVRDWILOSI, 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     242 HVTLASPEPTPOHEOPKNAGPLLLELDYADESCPATITTATVPITEPVVEEPTALSSSLA 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          302 PTWLSPTAPATEAPSPPSTAPPTVG--PVP---QPQDCPPSTCL/NGGTCHLGTRHHLACL 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----ORTIGSPS-----RETILITVKSVTPIYLIHISWRLALPMTALRL 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  417 KSLRLIYRNLSGP-DKRLVTLRLFASLAEYTVTQLRPNATYSVCVMPLGPGRVPEGEE-- 473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - -QARE----GNIPL--LIAPALAAVILAALAAVCAAY 522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.5%; score 298.5; DB 4; Longth 649;
22.8%; Pred. No. 1.1e-13;
ive 80; Mismatches 220; Endels 177, Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILL FILL STATEMENT STATEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    --VFENGITMLDASSFAGLPOTQLIPLSQNQIASLELPR 95
                                                                                                                                                                                                         TITLE OF INVENTION: Compositions Isolated From Skin Cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----PNTAYPAQGQWPAPVTKQPDIKNPKLIKD-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: and Methods For Their Use
FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188,930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22 COCPSCCOCSOPOTVFCTARGCTFVPRDVFPDTVGLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Saguence 50, Application us/oglengo2A; Patent No. 5519003
                                                                                                                                                    APPLICANT: Murison, James Greg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      523 CVRRCRAMAA - AAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           552 VHRNGSLFSRNCAYSKGR 569
Strachan, Lorna
Sleeman, Matthew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 22.89
Matches 141; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       474 ACCEART PPAVESNHAPVT
                                                                                                          Onrust, Rene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08 190-802A-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-188-9305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   400 ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ 1D NO 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRI
                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ें
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <del>2</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
```

```
68 TPDDTPVSTPALWL0GNNI SSTPSAAPONI SSTDET NEOGSWLRSLEPOALLGLOUN YYL 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           158 PVI BGI POLTEI PLAGNTETAQI PPEDI AGLAAL QELOVSNI SI QALEGOLSGLEPRIJKL. 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   188 TVFQGLGNLHELVLAGN-KLTYLQPALFCGLGFLFELDLSRNALRSVKANVFVHLFRLQK 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  47; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 PLILIPLIAL-LALGP-GVQG------CPSGCQCSQPQ-----TVPNTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     46 VPRDVPPDTVGLYVFENGTTMLDASSFAGLPGLGLLDLSQNQIASLR-----LPRLLLL, 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100 DESHINSELALEDCH, DTANVEALREACECEÇQEBECLESRERMEHDEEVERINGLERVER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.0%; Score 281.5; DB 1; Lenath 603; 32.4%; Pred. No. 1.6e-12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         insulin-like growth factor bind.
pro. complex-rat, Fig. 33
                    APPLICANI: Ron, Dorit
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          247 LYLDRILLTAVAPGAFLGMKALRWEDLSHNRVAGLMEDT---FP 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   218 LAAARNPENCVCPLSWFG----PWVRESHVTLAS-PEETRCHFP 256
                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,802A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                49; Mismatches 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 8600-0139
TELLICOMMUNICATIÓN INFORMATION:
                                                                                                                                    Dehlinger & Associates
                                                                                                                                                                                                                                                                                                             COMPUTER: 18M PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 50, Application US/08477346; Patcnt No. 6262023; GENERAL INFORMATION:
APPLICANT: Mochly-Rosen, Daria APPLICANI: Ron, Dorit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Mochly-Rosen, Daria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                33,875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 50:
                                                                                                                                                                                                                                                                                                                                                                                                                      01 · FEB · 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                        Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32.48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       60 4 amino acids
                                                                                                                                                    P.O. Box 60850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  92; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Fabian, Gary R. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                 COMPUIER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INDIVIDUAL ISOLATE: INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                                                                                                                          94306-0850
                                                                                                                                                                         Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                          FILLING DATE.
                                                                                                                                                                                                                                                                                           MEDIUM LYPE:
                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-190 802A-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-477-346-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
                                                                                                                                                         STREET
                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTHE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                  STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
```

```
68 IPPOIPVSTRALMINGONNISSIPSAAPGMISSIDPINIQESWIRSTERQALIGIQNIYYI 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100 DISHNSLIALFPGIL-DTANVEALRIAGLGLQQLDFGLFSRLRNLHDLDVSDNQLERVP- 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    128 HIERNRIRNLAVGLETHTPSLASLSLSSNLLGRIFFEGLFQGLSHLWDLNLGWNSLYVLPD 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   158 PVIRGLRGLIPPI PLAGNTRIAQLEPEDLACHAALGELDVSNESLQALPGBLSGLEPRLRL 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               37; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             46 VPRDVPPDTVGLVVFFNGTTMIDASSFAGLPGLGLLDLSQNQIASTR-----LPRLLLL, 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----CPSGCOCSOPO----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 PALIVYLLAFWVALGPCHLQGTDPGASADAFGPOCPVACTGSHDDYTDFLSVFCSSKNLTH 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28 4, Length 603,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGINAL SOURCE: Insulin-like growth factor bind. INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33
                           Derived Peptides and Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PWVRESHVILAS PERTHORIP 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               247 EYLDRNI,ITAVAPGAFLGMKALRWLDLSHNRVAGI,MEDT --- FP 287
                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.0%; Score 281.5; DB 4, Best Local Similarity 32.4%; Pro3. No. 1.6e-12; Matches 92: Conservative 49; Mismatches 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pro. complex-rat, Fig. 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2550-0025.20
                                                                                                                     2000 Ponnsylvania Avenue, NW
                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER, US/08/477,446
FILING DATE: 07-JUN-1995
CLASSIFICATION, 514
                                                                                                                                                                                                                                                                                                                                  OPERATING STRIM. FULLUS/MS-TAUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 50, Application US/08473089
; Patent No. 6342368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487,072
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 PLLLPLLLL-LALGP-GVQG-----
                                                                                                                                                                                                                                                                                  E: Floppy disk
IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29,949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE (202) 887-1500
TELEFAX: (202) 887-1503
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
APPLICANT: Kon, Dorit
TITLE OF INVENTION: WD 40
IIILE OF INVENTION: Thereot
NUMBER OF SEQUENCES: 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY / AGENT INFORMATION -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE ANORMY WITMPIN .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: MURASHIGE, KATE H.
REGISTRATION NUMPER: 29,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 603 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  219 I AAAPNPEMCVCPLSWFG
                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
                                                                                                                                                                  Washington
                                                                                                                                                                                                                                   20006-1812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ç
                                                                                                                                                                                                                 OSA
                                                                                                                                                                                                                                                                                       MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HYPOTHETICAL:
                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-473-089-50
                                                                                                                                                                                                                                                                                                           COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-477-346-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANTI-SENSE:
                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
```

```
68 LEDDIPVSTEALWI DANNI SSTPSAAFONI,SSLAFINLOGSWI RSLEPOALLGLOLDYYL 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100 DESHINSELLALEPGIL-PTANVEALFEAGLGEQGEPEGEPERENEHDEPVSDNQFFRVF - 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             158 FVIRGLRGLITRLRLAGHFIAQURPEBLAGLAALGBLAVSNI,SLQAEPGDLSGLFFRLRL 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      188 TVFQGLGNEHELVLAGN-KLTYLQPALFOGLGERRELFLERSHALFSVKANVFVHLPPLQK 24.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 PLLLPLLLL-LALGP-GVQG-----CPSGCQCSQPQ----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 PALIVULIAFWVALGPCHLIQBTIPGASAFIAGEPOGEVACTCSHLIOYTDF1 SVFCSSKNLTH 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46 VPRDVPPPTVGLYVFENGTTMLJASSFAGLPGLGLLDLSQNQTASTP----T PRTTIT 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.0%; Score 281.5; DB 4; Length 603; 32.4%; Pred. No. 1.6c 12; tive 49; Mismatches 106; Indels 77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 insulin-like growth factor bind.
pro. complex-rat, Fig. 33
                APPLICANT. Mochly Rosen, Darla
APPLICANT: Mon, Doilt
TITLE OF INVENTION: WD 40 Derived Peptides and Uses
TITLE OF INVENTION: Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           218 LAAAPNPPNCVCPLSWFC----PWVPESHVTLAS-PEKTRCHFP 256
                                                                                                                                                                                                                                                                                                                                                                    Patentin Pelease #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1550 0025.22
                                                                                                                                                ADDRESSEE: Morrison & Foerster
STREET: 2000 Pennsylvania Avenue, NW
                                                                                                                                                                                                                                                                                                                                                                                                             75,08,473,089
                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 6, Application US/08986485
Patent No. 6046030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: MORASHIGE, KATE H.
RIGISTRATE N. NUMBER: 29,959
PEPERENCE TOYETT NUMBER: 255
THILGOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                      E: rloppy disk
IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (202) 987-0763
INFORMATION FOR SEQ 1D NO: 50:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (202) 887-1500
                                                                                                                                                                                                                                                                                                                                                                                                                                    07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 603 amino acids
                                                                                                       26.5
                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: unknown
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                        ZIP: 20006-1812
COMPUTER READABLE FORM:
                                                                                                       NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : INDIVIDUAL ISOLATE:
; INDIVIDUAL ISOLATE:
US-08-473-089-50
                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amino acid
                                                                                                                                                                                            Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matelos 92, Conserr
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGINAL SOURCE:
                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ž
                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                      M. I. W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HYPOTHET ICAL:
                                                                                                                                                                                                                     2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                    SOFTWAPE:
                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-986-485-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                   STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ج
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .̂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
```

GENERAL INFORMATION:

```
71 SFACEPOLQEGOLSQNQTASER - - - - 1 PRELEGISHWSELATEPOLGE DTANVEALR 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  124 FAMOR QUESTI FSPIRNI HDI DVSPNOLEBVP PVIROLEOLTELFLAGNIFIAQUEP 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            118 JISSNUJGREBPOLPGGESHIWDENGMNSEVVEDPTVPQGEGNIJHFEVFAGN-KFTYEQP 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .FWV 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          58. AFQNESSI DEUNI QCSWI RSI EDQALI GI QNI YYI HERNRI BNI AVGI ETHI PSLASI.S. 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 ALGPOVQOOPSSOQOSQPQ----TVEOTARQGTTVPRINVPRINGLYVEFNGTTMIDAS 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AEGP----GCPVACTCSHDDYTDELSVFCSSKNLTHLPDDDIPVSTRALWLDGNNLSSIPSA 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8.7%; Score 271.5; DB 3; Length 353; $2.8%; Prod. No. 4.20-12; ative 46, Mismatches 103, indels 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      183 EDLACLAALQELDVSNISLQALFCDLSCHFPRIIGLEAAARRFFRCVCFLSWFC
                                       APPLICANT: TRUNEH, ALEMSEGED
TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)
                                                                                                                                                                                                                                                                                                                                  SOFTWARE: FastSEQ for Windows Version 2 of CHERLY APPLICATION DATA.
APPLICATION NUMBER: US/08/986,485
FILING DATE: OR-DE-1947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CH-70264
                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60,0059,448
FILING DATE: 22-SEP-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Sequence 6, Application US/078217178
// Patent No. 5298249
// GENERAL INFORMATION:
                                                                                                                    SEE: RATNER & PRESTIA
: P.O. BOX 980
VALLEY FORCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE, 23.031
REFERENCE, TOCKET NUMBER: CH-
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: 846169
INPORMATION FOR SEQ ID NO: 6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       239 RESHVILAS-PEETRCHPP 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          247 DUSHNRVACIMEDT --- PP 252
                                                                                                                                                                                                                                                                                        COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            610-407-0700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : 353 amino acids
amino acid
WU, SHUJIAN
SWEET, KAYMOND
                                                                                                                                                                                                                                                                                                                   200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SECUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             610-407-0701
                                                                                                                                                                                                                                                                         Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRESTIA, PAUL F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein
US-08:986-485-6
                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                           PRICK APPLICATION DATA:
                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                         MEDIUM TYPE:
                                                                                                                                                                                                                               19482
                                                                                                                          ADDRESSEE:
                                                                                                                                                                                        <
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-07 821 717B 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
.
.
.
             APPLICANT
                                                                                                                                                                                                         COUNTRY:
                                                                                                                                              STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                      STATE:
                                                                                                                                                                    NAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Materies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>2</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           â
```

APPLICANT: Miller, Jonathan E.

```
Proteolytic iragments and synthetic peptides that black the black the black the black the platelet membrane 4/ycoprotein Ib T NUMBEP: EP A 3/7 278 A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ..
Æ1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cloning of the alpha chain of human plates give, with homology plately glycoprotein ID. A transmembrane protein with homology to leucine-rich alpha-2-qlycoprotein roce. Natl Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tracts 188; caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLUMINAS 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Guery Match 8.3%; Score 259; DB 1; Length 610; Bost Local Similarity 24.3%; Fred. No. 6.7e-11; Matches 156; Conservative 72; Mismatches 186; Indebs 3
                                                             TITLE OF INVENTION: MUTATIONS RENDERING PLATELET TITLE OF INVENTION: GLYCOPROTEIN 15 ALPHA LESS REACTIVE NUMBER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RELEVANT RESTDUES IN SEQ 1D NO: 6: FROM 0 TO 610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; FUBLICATION DATE: 24-MAY-1985
; RELEVANT RESIDUES IN SEQ 1D NO: 6: FROM 0 TO 293
03-07-821-7178-6
                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, Version #1.40 CURRENT APPLICATION DATA:
                                                                                                                                                2: Nixon, Harqrave, Devans s Payle
Clinton Square, P.O. Roy 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28 CQCSQPQT - VPCTARGGTTVPHENVEHTTVGLYVITER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS: Fujikawa, Kazuo
AUTHORS: Hagen, Frederick S.
AUTHORS: Papayannopoulou, Thalia
                                                                                                                                                                                                                                                                                                                                      SOU-SM/SOUL-OU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zimmerman, Theodore S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ruggeri, Zaverio M.
Houghten, Richard A.
                                                                                                                                                                                                                                                                                                                1BM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          34,104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE: (716, 263-1636
TELEFAX: (716, 263-1600
INFORMATION FOR SEQ ID NO: 6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lopez, Jose A.
Chung, Dominic W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Vincete, Vincete
                                                                                                                                                                                                                                                                                                                                                                                                                         15-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                              Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-NOV-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roth, Gerald J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Timain, Susan J. REGISTRATION NUMBER: 34, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mohri, Hiroshi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        610 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein PUBLICATION:
                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5615-5619
                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                             New York
                                                                                                                                                                                       Rochester
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              POCHMENT NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUG-1987
                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                              MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS
                                                                                                                                                                                                                                                  14603
                                                                                                                                              APPRESEE:
                                                                                                                                                                                                                                                                                                                    COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   POPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS:
                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALITHOPS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                      STPFFF:
                                                                                                                                                                                                             STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PAGES:
                                                                                                                                                                                          CITY:
```

```
235 GPWVRES - . . . . . . . . IIVTLASPEETRC - - - - - HFPPKNAGRLILE - - LLVA 270
                                                                                                                                                                                                                                                                                                                                                                                             ----TALSSELAPTWLSPIAFATE-- 313
                                                                                                                                                                                                                                                                                                                                                                                                                               277 DYYPEBDIBGDKVRAIRTVVKFPTKAHIIFWGLLYSWSTASLDSQMPSSLHPTQESTKEQ 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APSPPSTAPPTVGPV --PQPQPQFGPPFSTT.NGGFG8LG1R 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          408 YLQGSS -VQLRSLRIJTYPNLSGPDKFLVTIP--LPASLAEYTVTQLPPNATYSVTVMPI 463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              436 FLTTTKPVSLLESTKKTIFELLQFFKLRGVLQGHLESSKRD- FFLAFD---FUCHALL 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ------PGRV-PEGFFEAGGEAHTPPAVHSNHAPVTQAPEGNLD 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    118 NVEALRLAGUSLIGGLIDEGLESRI.RNI.HEGGAVSLINGLERVPP-VIRGILGGILGGILGGAGNIP-176
                                                                                                                                                                                                                177 IAQLRPEDLAGLAALQPI TVSNI,SLQAL PGDL,SG--I,PPPLFI I AAAPNPFNCVCFLSWF 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 351 HHIACLCPEGFIGLYCESOMAQATPPSPPPVTPPPPRSLTLGTR9----VSPTSLRVCLQR 407
                                           71 SF-----AGLPGLOLL DESQUQTASI.----PEPPLILLDESHNSLLALEPGILDTA 117
                                                                                                                                                                                                                                                                                                                                           217. BEWIGENAFRVYVWEGGVOVKAAMISNVASVQČDNSDKELVYKVICKGGLTLGGREGETTIR 1216
4 CEVSKVASHIFVNCDKRNLTALPPDLPKDTIILHLSENLLYTFSLATLMPYTRIJQLNLD 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   337 TTFPPPWTPNFTLHMESITFSKTPKSTTEPTPSPTTSEPVPEPANMTTLEPTP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A,
APPLICANT: Finch, Clara
TITLE OF INVENTION: MUTATIONS PENDEPING PLATELET
TITLE OF INVENTION: GLYCOPROTEIN ID ALPHA LESS REACTIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             501 ---LLI----APALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      550 RAWLLET RGSLPTFPSSLFLWVPPNGPVGPLVAGPPPSALSQGRCQ 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM: PC-DOS/MS-DUS
SOPTWARE: PatentIn Pelease #1 0, Version #1 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Nixon, Hargrave, Devans & Doyle
Clinton Square, P.O. Box 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IIS,708/7119, 24.2R
                                                                                                                                                                                                                                                                                                                                                                                      271 DEGOPATTTATVPTTPPVVFEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US 07/821,717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 6, Application US/08119262B Patent No. 5492809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-SEP-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM-
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pochester
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STAIE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             314 .....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 12
US-08-119-262B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET:
                                        õ
                                                                                 qq
                                                                                                                            ó
                                                                                                                                                                     qq
                                                                                                                                                                                                              ã
                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                           d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              입
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                                                         ő
```

```
with homol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    factor to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 KÇELIKLÖVLÜĞILELESHINDEĞELLEĞÜTLEMİTVLDVSENRITSILPLG***** 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      118 - NVPAL,PLAGLGG GPGLFSRI PNI,HDLDVSDNQL PPVPP - V IPGLPGL TRLBI AGNTR - 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 177 TAGLEPERTAGLAALGELIVSNUSTGALPGRISG - LEPRIELAAARNPINGVCPLSWE 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              160 TOPEL PAGE ENGIRALIVEL FOR STATEM SPECSHIL PRAFILE --- NEWLONCELLYF 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                --IIVTLASPEETPG-----HFPPPNACPLLLE--LDYA 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2.1.2. HEMEQHAR BYTVWRG-1VIPVEAM (SNVASVA), AST GETVY EGGEOVED TUGHFELDED V. 1.76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              271 DECCPATITITION PPTREVVREE - - - - - - - - - TALSSELAPTWISPTAPATE - 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        277 DYYPEEDTFGPFVPATPTVVKFPTKAPTTPWGLFYSWSTASFFSGMPSSFHPGFSTRED 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          71 SF-----AGIPGLQLIPLSQNQIASL-----PLPRILLIDLSHNSLLALEPGILDTA 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITMLDAS 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 CEVSKVASHLEVNCDKRNLJFALPPDLPKDTTILHI,SENLLYTFSLATI,MPYTRLJTQLNLD 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.3%, Score 259, DB 1; Length 610;
24.1%, Pred. No. 6.7e-11;
Live 72; Mismatches 230; Indels 188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protectivitic Linguistics and synthetic pertides that blook the binding of von Willebrand membrane glycoprotein 1b
m NUMPER: EP 0 317 278 A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 16-NOV-1988
PUBLICATION DATE: 24-MAY-1989
RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6: FROM 0 TO 610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE: 91ycoprotein 1b: A transmembrane protein
TITLE: lencine rich alpha 2 glycoprotein
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 CQCSQPQT - - VECTARQGTTVPRDVP-PDIVGLYVPEN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : Koth, Gerald J.
Cloning of the alpha chain of human
                                                                                         HEFFENDE, LOUGHET NUMBER: 20894/22 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Papayannopoulou, Thalia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RELEVANT RESIDUES IN SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Limmerman, Theodore S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Houghten, Richard A. Vincete
                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS: Fujikawa, Kazuo
AUTHORS: Hagen, Frederick S.
AUTHORE: Papayannopoulou, Th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ruggeri, Zaverio M
                                                                     34,103
                                                                                                                                                                                                                                                                                                                                MGLEGULE LYPE: protein
PUBLICATION INCOMMATION:
AUTHORS: Letech Jose A.
AUTHORS: Chung, Dominic W.
                                                                                                                                        TELEPHONE: (716) 253-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SFO 1D NO: 5.
SROUENCE CHARACLERISTICS:
FILING DATE: 15-JAN-1992
                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                  LENGTH. 610 andno acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mohri, Hiroshi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 156, Conservative
                                            NAME: Timain, Susan J. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5615-5619
                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOCUMENT NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUG-1987
                                                                                                                                                                                                                                                                                                                                MOLECULE IYPE:
                                                                                                                                                                                                                                                                                 STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                235 GPWVPES-
                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-119-262B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS:
TITLE: P.
TITLE: tl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS:
AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAGES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                             IYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                č
```

```
408 YIQGSS--VQLRSURLTYPNISSPFRFLVTLR--LPASIAEYTVTQLEPNATYSVCVMPL 463
                                                                                                                                                                                                          434 PLITTYPYSTEETPKTTPFFEGPRINGONIESSENG PFHPD---FOLIGE 189
                                                                                                                                                                                                                                                                           464 G---------PGRV-PEREEA/PGEATTEAHTPPAVHSNHAFVTQAREGNI P. SOO.
APSPPSTAPPTVGPV---POPODOPPSTCINGGTCHIGTR 350
                                           337 TIEPPRWIPNETLHMESITESKIPKSTIEPTPSPITSEPVPEPAPNMTTLEPTP----- 390
                                                                                                                                    491 ---SPTTPE-----PTSEPAPSPTTPEPTPIPTIATSPT11,VSATS1,TTPKST 435
                                                                                                                                                                                                                                                                                                        351 HHLACLCFEGFTGLYCESQMGGGTRPSPTPVTPFPPRSTT/GTFP···VSPTSLFVGT@F 467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Mutations in the Gene Encoding the Alpha IITLE OF INVENTION: Chain of Piateier Glycoprotein Ib NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 24.1%; Pred. No. 6.7e-11:
Matches 156: Conservative 72. Mismatches 230. Indels 18
                                                                                                                                                                                                                                                                                                                                                                    501 ---LLI----APALAAVLLAALAAVGAAY/TVFFGFAMAAAAQFKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                550 PAWILPIPOSIPPPSSIPIWWPNCPVOPIWAGPPPSALSOOPOR 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patentin Release #1 0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: Nixon, Hargrave, Devans & Doyle
Clinton Square, P.o. Box 1051
                                                                                                                   ІМВЕК — ПЅДОЙДТ45, 929A
14-0CT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PEFERENCE, COCKET NUMBER: 20884, 23 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 11, Application US/08135929A
Patent No. 5593959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS/MS-DUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Miller, Jonathan I.
APPLICANT: Cunningham, bavid
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pincus, Matthew P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     34,103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO. 11. SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (716) 263-1636
(716) 263-1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 610 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Timian, Susan J.
REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBERY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rochester
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               978450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-145-929A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-135-929A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 13
314
                                        Q.
                                                                                                                                    9
                                                                                                                                                                                    ò
                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                         5
```

Indels 188, Gars

28 COGSOPOT---VECTAROGITVPRDVPPDTVGLYVPEN-------GITMLDAS 70

Š

```
235 GPWVPES-----HPPFTPG----HPPPKNACPLLLE--LDYA 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       271 DFGCPATTTTATVPTTPPVVPEP-------1ALSSSLAPTWLSPTAPATE-- 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---APSPPSTAPPTVGPV---PQPQDCPPSTCLNGGTCHLGTR 350
                                                                               71 SF-----AGLPGLQLLDLSQNQIASL-----RLPRLLLLDLSRNSLLAURUGILDTA 117
                                                                                                                                                                                                                           119 ---ALE--GLG-------ELQELYLKVNELKTI.PEGLITPIFKI.FKI.SLA-NNN 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                              217 PPWIQINAENVYYWKQGVIVXAMISNVASVQTINSIKEEVYKYPAKATPITABPATTFI Y 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   408 YLGGSS--VQLPSLPLTYPNLSGPPKPLVTLR--LPASLAFYTVTGLRPNATYSVCVMPL 463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    436 FLITTREVSELLESTRKTTPELLIQPPKI BGVIQDHUESSRNI) - - - PELHPO - - ECCLIPL 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----PGRV-PEGEEACGEAHTPPAVHSNHAPVTQAREGNLP 500
                                                                                                                                                                                           118 NVEALELAGLEGGLEGLESTERNI.HDLDVSDNQLERVPP-VTRGLRGLTFLREAGUTR 176
                                                                                                                                                                                                                                                                                                  177 IAQI RPEG AGLAALQELEVEH SLOALPETLEC - LEPSERLI AAABHEPINOVORUSIIP 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          277 DYYPEEDTEGLKVFATPIVVKFFFTKAHTTPWGLFYSWSTASI I SQMPSSI HPTQPSTFFBQ -346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       351 HHLACLCPMSFTGLYCESQMGQGTPPSPTFVTPRPPPRSLTLGTBP---VSPTSLRVGLQR 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       391 ---SPTTPE------PTSEPAPSPTTPEPTPIPTIATSPTILVSATSLITPKST 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          490 GEYVLGLEWLLFASVVLILLLSWVGHVKPQALDSGQGAALTFATGTTHLELQPGRQVTVP 549
4 CEVSKVASHLEVNCTERNLIALPPOLDKDTTTLBHISENLATTESLATIMFYTRLTQLNLD 63
                                                                                                                 337 ITEPPRWIPNFILHMESIIFSKIPKSITEPIPSPITSEPVPEPAPNMITLEPIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Miller, Jonathan L.
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pinch, Clara N.
APPLICANT: Pincus, Matthew R.
TITLE OF INVENTION: Mutations in the Gene Encoding the N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                501 ---LILI----APALAAVI-LAALAAVAAAYGVERGRAMAAAAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   595 PAMIJ FLPGSLPTFPSSLFIWVPPNGPVGPLVAGPPSALSQAPGG 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Chain of Platelet Glycoprotein 1b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patentin Belease #1.0, Version #1 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dinton Hargrave, Devans 5 Poyle Clinton Square, F.O. Box 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CUREBNY APPLICATION DATA:
APPLICATION NYMBER; 05/08/234,265A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: 1BM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 11, Application US/08234265A
Patent No. 5624817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rochester
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-U8-234-265A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          464 G----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWAPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIREET.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
                                                                                                                                     Ë
                                                                               ò
                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ΩĐ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ζζ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ें
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    흑
```

```
--HVTLASPEETRC-----HFPPKNAGRILLE LDYA 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --APSPESTAPETVGPV---PQPQUCPPSTCLNGGTCHLGPR 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     118 NVEALRIAGIGIQUEGGIFSPIBNIHDI DVSPNQUEPVPP-VIPGIPGIPGITPLAGNTP 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          119 ---ALR--GLG------ELQELYLKVNELKTLPPGLLTPTPKLEKLSLA-NNN 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         177 TAĞLEPEDI ASLAALQELEVSNI,SIQALEDDI SG--LEPPI PI LAAARNERIQVQELSWE 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       160 LIELPVGLINGLENLDTLLLQENSLYTIPKGFFGSHLLPFALLHG---NPWLCNCELLYF 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          351 HHLACLOPFAFFGLYORSQMGQGPPPSPTPVTPRPPRSLTLCLEP---VSPTSLRVGLQR 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              436 PLTTTKPVSLIESTKKTIPELDOPPKLRGVLOGHLESSPND---PFLHPD----FCCLLPL 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64 RCELTKLOVERTLEVLARIDISHNOLQSLELLAQTI PALITVLIVSFNPLTSI PLG***** 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28 CQCSQPQT---VECTARQGTTVPRDVPPDTVGLYVEN-------GITMLDAS 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 CEVSKVASHLEVNCDKRNLTALPPDLPKDTTILHLSENLLYTFSLATLMPYTRITQINI,D 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --TALSSSI,APTWI,SPTAPATE--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             337 TTPPPRWTPNFTLHMESITFSKTPKSTTRPTPSPTTSEPVPEPAPNMTTLEPTP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   408 YLQCSS--VQTRSLRLTYRNLSGPRKPLVTLR--LPASLAEYTVTQLPPNATYSVGVMPL
                                                                                                                                                                                                                                                                                                                                                                                                                                 230, indels 188;
                                                                                                                                                                                                                                                                                                                                                                                    Query Match 8.3%; Score 259; DB 1, Length 619, Bost (anal Similarity 24.1%; Prod No 6 70.1).
Matches 156; Conservative 72; Mismatches 236, indels 1
                                                           REFERENCE TATEST NUMBER 70884 224 TELECOMMUNICATION INFORMATION:
                                      REGISTRATION NUMBER: 34,103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          271 DEGCPATTTTATVPTTRPVVREP--
                                                                                                                                                      TELEX: 978450
INFORMATION FOR SEQ ID NO: 11.
                                                                                                        (716) 2n4-in4n
(716) 2n4-in4u
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                           610 amino acids
                                                                                                                                                                                                     SEQUENCE CHAPACTERISTICS:
                       Timian, Susan J.
                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
                                                                                                                                                                                                                                                   amino acid
                                                                                                                                                                                                                                                                           linear
                                                                                                           TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  235 CPWVPES
                                                                                                                                                                                                                                                                                                                   US-08-234-265A-11
                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                     TELEFAX:
                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ζ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
```

```
Sequence 2, Application US/09182024A Patent No. 6342370
                                                                                                                                  Connolly, Timothy
                                                                                                                                                Rajput, Bhanu
                                                                                                                 GENERAL INFORMATION:
                                                                     US-09-182-024A-2
                                                                                                                                  APPLICANT:
                                                                                                                                                APPLICANT:
```

490 GEYVLGLEWLLEASVVI.III.SWVCHVKPQAIDSGGGAALTTATQTTHLEIQPGPQVTVP 549

501 ---ELT----APALAAVITAALAAVGAAYCVPRGRAMAAAAQDKGQ 539

---PGRV-PEGEEACGEAHTPPAVHSNHAPVTQAREGNLP 500

δ

463

```
15;
TITLE OF INVENTION: Same
TITLE OF INVENTION: Same
TITLE OF INVENTION: Same
TITLE FEBRENCE: 640100-271
Fig. SEPERENCE: 640100-271
Fig. SEPERENCE: 19948-10-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           203 ALPCHASPEETPCHIAAARNPENCVCPLSWESPWVPESHVTLASPEETPCHPPPVNASP 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       851 -------HLALGTNPLHCDCSLRWLSEWVKAGY---KEPGIARCSSPEPMADR 893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  929 GTCTQDPVELYPCACPYSYEGKLOTOVPTNICTONINGQOTOTIS SUSHKUGFSGSCPLGP 988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84 - SONOTAST PLAPPITALI DUSHNSLJALÆPGTLOTANVEALÆLAGLGLØQLDEGLÆSRLRNL - 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           144 HPLPVSPNQLFPVE PVTFCLFGTTPLFFACTFACTPFFACTPFFACTAGTAFTACTAGTAALQELDVSNLSLQ 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             321 APPTVGPVP------QPQDC--PPSTCL----NGGTCHLGTRHH--LACLCPEGF 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----ISMLTNYTFSNMSHL 801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VARCNACLSSPCKNN 928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24 ÇI SÖĞĞ SĞI ÇEYETEN EN FEN PER TADIL VERINGI TALLEAS SEAGLIŞLIDLI (B.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       802 STLILSYNPLPCIPVHAPNGLPSCPVITFHGN------DISSVPFGSFNDLTSLS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                      # 29, Score 278, Fp 4, Lenth 1523,
Local Shilarity 25.7%, Pred. No. 2.5e 19,
les 94; Conservative 39; Mismatches 115; Indels 118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           263 TELETTYARFGCPATITIATVPTTPPVVFEPTALSSSLAPTWLSPTAPATEAPSPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       725 CPEQCTCME-TVVRCSNKGLRALPRGMPKDVTFLYLEGNHLTAV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ----TIDIHRFQCKGPVDIN: ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            completed September 17, 2002, 09:51:41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          768 -PRELSALR--HLTLIDLSNNS-----
                                                                                                     CURPENT FILLING DATE: T998-10-29
PRIOR APPLICATION NUMBER: NUZUK3,946
                                                                                                                                                                             60,7096,420
                                                                                                                                                      PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/(
                                                                                                                                                                                                       1998-08-13
                                                                                                                                                                                                                                                      SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Homo sapiens
US-09-182-024A-2
                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                          PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           362 TGLYCE 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            989 EGQRCE 994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1518 sec
                                                                                                                                                                                                                                                                                                          1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Querry Mater
                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                                                                            LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Search com
Job time:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ċ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
```

2

•

```
GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.
```

OM protein - protein search, using sw model

September 17, 2002, 09:46:24; Search time 21 Seconds (Without alignments) 2736.258 Million cell updates/sec Run on:

.....PLMCFPGPGLQSPLHAKPYI 598 1 MCSEVPLILPLILLIALGPG.. BLOSUM62 Gapop 10.0 , Gapext 0.5 US-09-944-396-69 3135 Title: Perfect score: Scoring table: Sequence:

283138 otal number of hits satisfying chosen parameters:

283138 seqs, 96089334 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Listing first 45 summaries Maximum Match 100% Post-processing: Minimum Match O%

1: pir1:*
2: pir2:*
4: pir4:* P1R_71:* Database :

Pred. No. is the number of results predicted by charce to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		œ			SUMMAKIES	
Result		Ouery				
C	Score	Match	Match Length	DB	110	ription
	322		900	C1	(A)	· -=
C‡	305	9.6	605	C4	A41915	l i ke
~	787	0.6	F.2.F.	-	NPBUIA	
4	281.5	9.0	603	- 3	JC1282	_
5	0) 10) 10)	c a.	603	с.	801301	-
ع	9.75 8.75	ۍ. من	1531	C4	T42218	prote
r.	264.5	α:	G 	C a	A53531	core feetal traphylal
8	261		1523	7	T13953	MEGF5 protein - ra
Ġ,	250 200 200 200 200 200 200 200 200 200		1469	cı	BRERES	< 4
1.0	255.5	 ee	1480	C4	A 2 6 6 6 5 .	s!!t protein 1 pre
11	543 1		312		NBHUAS	
15	240		560	C•	A60164	rlatelet membrane
13	237		202	۲,	27663	
14	53		1025	CI	T42626	
1.6	0.00	7 . 7	536	c a	A34901	づ
16	214.5		1535	C3	846224	perexidasin - frui
17	ਰ ਹ		¥61	c a	A53860	Chandroadharin pre
1.8	210.5	5.7	4302	Ċ1	A38971	polycystic kidney
o-T	ಕಂದ		1091	C1	A58532	glial cell membran
C1	208.5	6.7	C 65	c.	139068	proline arginine
21	50C		653	< 1	125294	hypothetical profe-
C# C#	561		(1) (1) (1)	C I	::3007	[17]
či	194 5		ල ස ර	€1	728714	
24	194.5		1355	C)	T28715	_
0 °	193.5		421	C 1	146266	_
Ċ1	193.5	9	et co	c 3	E70766	
C1	192.5		u) r - u)	: a	0.00000	- 4
28	189		369	C.	520811	
504	189	6.0	169	CI	832793	biglycan precursor

ALIGNMENTS

insulin-like growth factor acid-labile chain - baboon C; Species: Paplo sp. (baboon) C; Species: Paplo sp. (baboon) C; Species: Paplo sp. (baboon) C; Stecession: JC5239 #sequence_revision 09 May 1997 #text_change 09 May-1997 C; Accession: JC5239 #sexter, E.C. Hochen: Biophys. Rev. Commun. 227, 897-962, 1996 A; Title: The cioning and expression of the baboon acid labile subunit of the insulin A; Mederence number: JC5239, MUID:97040714 A; Mederence number: JC5239 A; Molecule type: mkNA A; Molecule type: mkNA A; Messidues: 1-665 DELA. A; Messidues: J-665 DELA.	insulin-like growth factor acid-labile chain · baboon c)species: Papio sp. (baboon) C.Date: 17-Apr-1997 #sequence_revision 09 May 1997 #text_change 09.May-1997 C.Date: 17-Apr-1997 #sequence_revision 09 May 1997 #text_change 09.May-1997 C.Date: 17-Apr-1997 #sequence_revision 09 May 1997 #text_change 09.May-1997 C.Date: Paper 1909 P.S. By Rev. Commun. 227, 897-962, 1996 A.Title: The cloning and expression of the baboon acid labile subunit of the insulin-A.Reference number: J65239, MUID:97040714 A.Moreusian: Jfver A.Accession: Jfver A.Accession: Jfver A.Accession: Jfver A.Accession: Jfver A.Moreusian: Jfver A.Moreusian: Jfver A.Moreusian: Jfver A.Moreusian: Jfver A.Moreusian: Jfver A.Moreusian: Jfver Jacter is structurally related to profimentian and have insuline like m.	RESULT 1 JC52+9
C:Species: Papio sp. (baboon) C:Species: Papio sp. (baboon) C:Bace: 17-Apr-1997 #segaence_revision 09 May 1907 #text_charge 09.May-1997 C:Accession: JC5239 E:Delhanty, P.: Baxter, R.C. Biochem: Biophys. Row. Commun. 227, 897-902, 1996 A:Title: The cloning and expression of the baboon acid tabile subunit of the insulin A:Mederonce number: JC5239; MUID:97040714 A:Accherons: INVO. A:Accherons: INVO. A:Accession: JC5239 A:Molecule type: mkNA A:Mesidues: 1-605.DELD. A:Molecule type: JC5239 A:Molecule type: JC5	C:Species: Papio sp. (baboon) C:Bace: 17-Apr-1997 #sequence_rerision 99 May 1997 #text_change 09.May-1997 C:Arcession: JG5239 R:Delhanty, P.; Baxter, R.C. Hiochem, Biophys. Are: Commun. 227, 897-962, 1996 A:Title: The cloning and expression of the baboon acid labile subunit of the insulin A:Reference number: JG5239; MOID:97040714 A:Title: The cloning and expression of the baboon acid labile subunit of the insulin A:Reference number: JG5239; MOID:97040714 A:Title: The cloning and expression of the insuling A:Reference number: JG5239 A:Molecule type: mRNA A:Residues: 1-605 *DEL> C:Comment. This factor is ciructurally related to processible and have insuline like	insulin-like growth factor acid-labile chain · baboon
Cydrocasion: JG5239 R. Delhanty, P., Baxter, R.C. Hiochem. Biophys. Res. Camean. 227, 897-962, 1996 A;Title: The choming and expression of the baboon acid labile subunit of the insulin A;Reference number: JG5239; MUID:97040714 A;Contents: Hyor: A;Contents: Hyor: A;Contents: Hyor: DELSA A;Reference number: JG5239 A;Molecule type: mkNA A;Residues: 1-665-DELSA A;Resi	Cydrocossion: JC5239 K.Dechanty, P.; Baxter, R.C. Hiochen, Biophys. Ave. Commun. 227, 897-902, 1996 A; Dichem. Biophys. Ave. Commun. 227, 897-902, 1996 A; Title: The cloning and expression of the baboon acid lubile subunit of the insulin A; Reference number: JC5239; MuID:97040714 A; Coltents: Ifvor A; Averession: JC5239 A; Molecule type: mRNA A; Residues: 1-605 - DEL> C; Comment. This factor is ciructurally related to precessing and bare insuline like	C.Species: Papio sp. (baboon) C.Data. 17.Amm-1667 Recommence remision of March 997 #fowt pharmed 19.March 997
Ribelhanty, P.: Baxter, R.C. Hiothen, Blophys. Area, Commun. 227, 897–962, 1996 Airtiele: The cloning and expression of the baboon acid tabile subunit of the insulin A; Weterence number: JC5239; MUID:97040714 A; Coltects: Hyer: Area of the coltect of the insuling A; Moression: JC5239 A; Moression: JC5239 A; Molecule type: mkNA A; Residues: 1-605. DELA. A; Residues: 1-605. DELA. A; Residues: J-605.	Ribelhanty, P.; Baxter, R.C. Hiochem, Blophys. Aves. Commun. 227, 897-962, 1996 A;Title: The cloning and expression of the baboon acid labile subunit of the insulin A;Keference number: JC5239; MOID:97040714 A;Keference number: JC5239 A;Meression: JC523 A;Melecule type: mRNA A;Residues: 1-605 *DEL> C;Comment. This factor is ctructurally related to proinsuling and have insuline like	C. Accession: JC5239
Biochem. Blophys. Rev. Commun. 227, 897-962, 1996 AyTitle: The cloning and expression of the baboon acid labile subunit of the insulin AyReference number: JG5239; MUID:97040714 AyRoitents: Inver gation is chructurally related to projectly and have insuline like	Biochem. Biophys. Ross. Commun. 222, 892-902, 1996 A,Fille: The cloning and expression of the bakeon acid labile subunit of the insulin A,Roference number: J05239; MUID:97040714 A,Rocession: IGS239 A,Arcession: IGS239 A,Molecule type: mRMA A,Rosiduas: 1-605 - DEL> C,Camment. This factor is circlerally related to promovelly and have insuline like	R.Delhanty, P., Baxter, R.C.
A;Title: The cloning and expression of the baboon acid labile subunit of the insulin A;Weference number: UC5239; MUID:97040714 A;Contents: liver A;Accession: UC5239 A;Molecute type: mkNA A;Residues: 1-665 - DEE.> A;Molecute: This factor is ctructurally related to propositional have insuline like	A;Title: The cloning and expression of the baboon acid labile subunit of the insulin A;Keference number: UCS239; MHD:97040714 A;Keference number: UCS239 A;Accession: UCS239 A;Molecule type: mkNA A;Residues: 1-605 - DEL> C;Comment: This factor is ctructurally related to preinsulin and bare insuline like	Biochem. Biophys. Res. Commun. 227, 897-962, 1996
Askeferonce number: JG5289; MHD:97040714 AskObitchis: Liver Askobitchis: JG5289 Askedsston: JG5289 Askobitchis: JG5289 Askobitchis: JG5289 Askobitchis: JG5289 Askobitchis: JG5889 Askosiduwas: J-665 Askosiduwas: J-665 Askosiduwas: J-665 Askosiduwas: J-665 Askosiduwas: J-665 Askobitchis: Jactor is chincturally related to protectly and have insuline like	A; Reference number: JC5239; MUID:97040714 A; Contents: Liver A; Accession: JC5239 A; Molecule type: mENA A; Residues: 1-605 - DEL> C; Comment: This factor is cirreturally related to precessing and have besuline like	A; Title: The cloning and expression of the baboon acid labile subunit of the insulin
A;Contents: liver A;Arcession: JG5239 A;Moleculo type: mRNA A;Residues: 1-665 «DEL» C;Rommont, This factor is ctructurally related to projectly and have insuline like	A)Contents: liver A)Arcession: JC5239 A)Molecule type: mRNA A)Molecule type: mRNA A)Residues: 1-605 + DEL> C;Comment: This factor is cirecturally related to professible and have besuline like	A; kaference number: JC5239; MUID:97040714
A;Accession: JC5239 A;Molecuie type: mRMA A;Residues: 1-605 -DEL. C;Comment, This factor is ctructurally related to projectly and have insuline like	A;Accession: JC5239 A;Molecule type: mRNA A;Residues: 1-605 -OBEL> C;Comment: This factor is ctructurally related to proinstlin and have besuline like	A;Contents: liver
AsMolecute types mRNA Askesidues 1-665 - DELS G. Comment, This factor is ctructurally related to prefectlin and have insuline like	A;Molecule type: mRNA A;Residues: 1-605 -OEL. C;Comment. This factor is ctructurally related to proinsulin and bare besuline like	A;Accession: JC5239
AgResidues: 1-605 (DELA) C. Comment: This factor is chructurally related to projection and have insuline like	AgResidues: 1-605 <pre>-DELo</pre> Cyfomment: This factor is etructurally related to projecting and have besuline like	A; Molecula type: mkNA
Optomment. This factor is etructurally related to projection and have insuline like	Cyfommont. This factor is etructurally related to proincilla and have inculine like	A; Residues: 1-605 < DEL>
		Cycomment: This factor is structurally related to projecting and have insuline like :

	Query Match	10.48;	Score	322:	113		10.4%; Score 322; DB 2; Length 605;			
	Best Local Similarity 46.2%; Pred. No. 1.9e-11;	16.28;	Prod.	No. 1.	- 25	ï				
_	Matches 100, Conservative 39, Mismatches 97; Indels 40; Gaps 11	ative 3	19, Mis	smatche	S	97;	Indels	40,	Gaps	1
>	7 LLLPLLLL1ALGPGV0GCPSGCQGSQFQ	1	90A9a	840	000	SOP	J LVFC	TAROG	TT 45	

			т	26
		3	5	-
	- 1:: ::	NELSVECTSRNLTR	RIPELLIA	H. POALLALENLOH
2.0000000000000000000000000000000000000		8 LALALLLSWVALGFRSILIGABFSTFORARGFACTATCAGSFILIFYNELSVFCUSRKLIR 67	46 VPENTPITY : VVERPRETING ASSENCIACIO EL	69 TPPT POSTORIANIS RIPPARPRI SST PPARPRI SST APTRI (600) COLL. PORLICIENTOR 126
	_	lgaefst fsear	LICASSECTMII	TRALEBRANESS I
	= == == == ==	LALLLSWVALGFRSI	EDVERDITVE: YVEERO	HYSTLM BACTOCHTEN
	_	1.6	<u>-</u>	-
-		ω	+	5.
,		40	15 6.4	£

 $\frac{\partial}{\partial t}$

1ºº VY PV19016010019 PASSTETAQLEPPTIACIANI CILLVONI SUSALPONI SOLPRE DIA Z. G

RESULT A41915

insafin like growth tactor binding complex acid-labile chain precursor - human M.Alternate names. Acid Labile Subanit (ALS)
(Species Homo sapiens (man)
(Castor 18 test 1293 Exequence_revision 31-fest 1993 #test_charas 05 May-1999
(Caccession: A41915
(Caccession: Caccession: A41915
(Caccession: Caccession: Caccession: A41915
(Caccession: Caccession: Caccess

```
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Gene: GDB: GP1BA; GP1B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ζý
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             continuential applications of programming the continuents of the conti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                154 VE PVERGLEG TREELACHTERAGEFIERFAGTAALGEFPVSNESDAALFOOLSOLFEE 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P.12 - 16 / Investing territor field of the 2 of yeaptotein repeat, homology CERP2 P.147 - 190 / Newmain territor field of the 2 of yeaptotein repeat, homology CERP2 P.147 - 190 / Newmain territor field of the 2 of yeaptotein repeat, homology CERP2 P.195 - 218 / Newmain territor field of the 2 of yeaptotein repeat territorial of yeaptotein repeat territorial per P.219 - 220 / Newmain territorial of the 2 of yeaptotein repeat territorial per P.219 - 220 / Newmain territorial of the 2 of yeaptotein repeat territorial per P.219 - 220 / Newmain territorial of the 3 of yeaptotein repeat territorial per P.219 - 2 of yeaptotein repeat 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      68 - LPOGVPGGTQALMI PONNESSVPPAAFQNI SSI GET NI QGGQLGSLE-PQALLGLENLGH- 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 LDLSHNSLLALEPGTI DPANVPALRLAGLG---LQQLDPGLFSRLRNI HDLDVSDNQLBR 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      127 THEBRIQERSTALTTF - ARTPALASED SINRESPEEDELGSEMBEREGWISLAY 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 LLLPLLLL--LALG------PGVQC------CPSGCQCSQPQ-----TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 LALALLESWVALGPRSLEGADPGTPGEAEGPAGVGSYDDDADELSVFCSSRNLFR 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cisupertamily: leacine-rich alpha-2-glycoprotein repeat homology
E255-98/Pownsin: Leacine-rich alpha-2-glycoprotein repeat homology -IREE:
E399-122/Pownsin: Leacine-rich alpha-2-glycoprotein repeat homology -IREE:
                                                                                                                                                                                                                                      A; Residues: 1-605 < LEO>
A; Cross-references- CR-MR6826; MID-3184807; PIDM,AAA36947.1, P.D.3184809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46 VPRDVPPDTVGI YVFENGTTMI PASSFAGLPSEQELELSQNQIASLPLPRELL.-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 605,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98; indels
                                                                                                                                                                                                                                                                                                                                                                                                                                A; Note: sequence extracted from NCBI backbone (NCBIP:110171)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      platelet qiycoprotein ib alpha chain precursor - human N;Alicrnate names: membrane qiycoprotein ib alpha chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 6%; Some 302; PH 2;
35.5%; Pred. No. 2.7e-10;
tive 40; Mismatches 98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                244 LOPENTEDPNETANVAPOAFFCEPALBWED: SHINDVA 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PWVPTSHVTLA 244
A;Reference number: A41915; MCHD:92357825
A;Accession: A41915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             215 TRITAAAFNPTROVOFTSWPG
                                                                                                                                                                                         Molecule type: mRNA; protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                      A:Experimental source: liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N:Contains: qlycocalicin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                   A:Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   339 - 362] Chimaja.
363 - 386, Avmaja.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   F; 487-410/Pomaja.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F;459-482,4Nomain-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      F;411 444 (Persite)
F;435-459 (Persite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F;48*-506/Town;n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Mateb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESUL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         :
:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
```

```
A;Title, isolation and characterization of human blood platelet mRNA and construction d cloning of a GPIb coding cDNA insert.
A;Reference number: A60435; MUID:90020160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C.Comment: Glycoprotein ib (GPIb), a surface membrane protein of platelets, participa C.Comment: Platelet activation apparently involves disruption of the macromolecular c C.Comment: Binding sites for von Willebrand factor and thrombin (the latter site with C.Comment: Glycocalicin, which is approximately exectensive with the extracellular pa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Complex: heterodimer with platelet alycoprotein ib beta chain (NBHOTB)
Complex: heterodimer with platelet alycoprotein ib alpha chain; leucinc rich alpha 2 alycoprotein
Cossuperfamily: platelet diypoprotein ib alpha chain; platelet membrane; tandem 1
E11-16/Nomain: signal sequence *status predicted *SIG>
E117-16/Nomain: signal sequence *status predicted *SIG>
E117-16/Nomain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR1*
E22-33/Loumain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR1*
E34-11-16/Nomain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR3*
E117-146/Nomain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR4*
E117-146/Nomain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR4*
E118-166/Nomain: leucinc rich alpha 2-alycoprotein repeat homoloay *LRR4*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61. TPSI ATI MPYTPLEGI NEPPOPLI PREQVENTI PVENTED SHNOLOSE PELGOTEPALEV. 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E.165 188/Johnson. Leucine rich alpha 2 el/coprotein repeat humbler, LEBEN-1878-122/Domain. Leucine rich alpha-2-qlycoprotein repeat humblogy -LRR7-1879-430/Region. prolime/Chreonine-rich 9 resibne repeats P502-440/Domain. transmombrane #status predicted *TRM2-P541-626/Permins fatture/Inlan #status predicted | NTT-P5/Einding site, carbolydrate (Asn) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24.0%; Pred. No. 4.10-07;
Libe 72, Mismatches 244; Indels 199; Gapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 TELLITIAL OPOVOJOPSOPOVAJOV - VAPOTABOJITIVEPSVIJOVOJO V - 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MPLITALIALE PSPLHPHPICEVSKVASHLEVNOOKRNITALEPPLEKETTILHASENLAY 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63 ------G1TMLDASSF-----AGLPGLOLLDLSQNQ1ASL ----RLPRLLL 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A)Residues: 412-4-277 <RES>
A,Crossiteferonces, GB.S.442E, NID.324977E, FIDM.AABEERED., FID.9249177
A,Note: variant D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P,308/Winding site: carbohydrate (Thr) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.0%; Score 282; DB l; Length 626;
24.0%; Pred, No. 4.1e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A.Arcession, 15935
A.Status, Frediminary, Granslated How Ob/EMBL, DOBJ
                                                                                                           A,Accession: A60435
A,Molecule type: mRNA
A,Rcsiducs: 297-467 -WHC:
R;Titani, K.: Handa, M.; Ruqqcri, Z.M.
Proc. Natl. Acad. Sci. U.S.A. 84, 5610-5614, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A)Cross-references: GDB:118806, OMIM:24:200
A;Map position: 17pter-17p12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ations.
A.Reterence number: 155355; MUID:92250564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 160, Conservative
```

A.Arcression: 14.2.18 A.Statas preliminary, translated from CB/EMBL/DDBJ A.Molecule Type: mRNA A.Residues: 1.1531 «NAK»	OF THE PROPERTY OF THE STANDARD CONTINUES ON THE STANDARD
Genomics 51, 27-34, 1998 Arithe: Identification of high-molecular-weight proto A; Reference number: 214126; MUID:98360089	8 PALVVIJAEWVALGPOHLOGTDPGASADAEGPOCVACTOSHDDVTDELSVFCSSKNLTH
Cycles for 142.21	50,000
sili-i protein homolog - rat N,Allernate names. MRMF4 protein C;Species: Rattus morvegicus (Norway rat.)	 Scare 281.5, DB 2, Langth 603, Pred. No. 1.2e-09;
RESULT 6	Fil-27/Pemain, signal sequence #status predicted <210> Fi28-603/Product: insulin like growth factor binding protein, acid labile chain #status Fi267-299/Bomain: leucine-rich alpha-2-glycoprotein repeat homology <1.00>
05 C.C. GGAARRETTR'VOTTSWITO: PWYRESHVITA 246 CE 246 KEYEDSWILTAVAPRAFIEDMRALEWIDSSHINRYA 279	A:Experimental source live: A:Note: Lhe authors translated the codon AAC for residue 63 as Arg. AAA for residue 205 C:Superfamily: leucine rich alsha 2 slycospilein repeat homelosy
	A; Residues: 1 603 <dats A; Cross-references: GR: 846785; NID: 9258902, PHN. AAB2 8779.2, PID. 95795934</dats
C) 179 TVIBOLEGUERRACHENAGERETTA TAALCEUVERE	Accessing 1782 As Molecule type: mRNA
ON 19. SHICH THE THE TRANSPORT AND CONTROLLED FROM THE	Figal J. Bayrer, B.C. Biochem. Biophys. Res. Commun. 188, 304-809, 1992 Giffel Molecular Change Change in the suid Jabile Jabile Jabile of the rat invalis like growth ta before maker. 191992.
DE 68 I PROTEVENERA WILKENNI SSTPSAARONI SSLUBEL NI QUSSMI B	C:Species: Partus norvegious (Norway rat) C:Species: 30-Sep-1903 #sequence_revision 30 Sep-1993 #text_change 21-Jul-2000 C:Accession: JC1282
Db B PALVVILAFWVALGPCYLQGTDPGASADAFGPDCPCSYDI	KESULT 4
Matches 90; Conservative 48; Mismatches 101;	9y 534 AQDKOÇ 539 :1 :11 Db 606 SOSRGO 611
A;Map position: 17	Qy 481 PPAVHSNHAPVTQAREGNEP11.1APALAAVLLAALAAVGAAYCVERGRAMAAA 533 1 : : : : : :
Appross references: Grantseour, MID:416-21612, PIDM:AAMS Cocumment: This protein is a serum prodein and it is organization to Commercials:	Gy 444 EXTVIGLEPHNATYSVCVMINES
Apertorion organization (1987) MUID: 9641-8591 A) Accession: JC6128 A, Molecula type: DNA A, Molecula type: DNA A, Molecula type: TNA A, Molecula type: TNA	Gy 341 IGIFPVSPISLPVGLQPYLQGSSVQTPSEDTTYPNLSGPDFPIVILPLPASLA 443
C.Arresston: 3c6128 R;Boisciair, Y.R.; Seto, D.; Hsieh, S.; Hurst, K.R.; C Proc. Natl. Acad. Sri. H.S.A. 93, 10028-10033, 1996	Oy 331 PODCEPSTCLMGGT7HLGTEHHLAGTGFFGFF3LYPESGMGGTFFSVTFFFVTFFFFTT 399
RESULT 5 JC6128 JC6128 JC6128 JCS01in-like growth factor binding complex acid labilit C.Showring Mass mystulus (bouges mouse) C.Dator of Mary 1907 aconomic revisitor 190 Mary 1907	Oy 296 LSSSLAPTMLSPTAPATE
DE 247 LYLDBRELTTAVAFGAPLGMKALBWELLSHNEVAGLMEDT FT	Cy 254 -HITPIENAGELLE-LLYANDECCEATTTATUFTERVUREEP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
219 LAAARHPBROURISWES IWWPERHYLAS-PERFECHE	DD 216 APLHG NPWEGNCHLLYFPRWIGHNAPHVVVWKGWVNVKAMPSHVAZVETHRSRPPIV 722
12	181 AGIL NOLENDOTLIANDEN ***********************************
TALLED STATEMENT AND PROTECT STATEMENT SELECTOR OF THE	Q ₁ 17P F VER PSTEETRINGERAGEREETASTAAGESTAVSKESLEAGESTSSCELEEF 114 1: [1 1 1 1 1 1 1 1 1 1
A POLICE DESIGNATION OF THANDISTICATION OF THE POLICE DESIGNATION OF T	DD 121 CONCENEUTSEFLOADEOUGELQUEAUGENEUTEPOUGTEPOUGTEREPOUGTERE EN 1900 120 CONCENEUTEUR 1800

```
Meins with multiple EGF-like moti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .nf the ternary complex in the ph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of the gene encoding the mouse aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Indels 35; Gaps 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tow+_change 21-101-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          text_change 05 Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HISTLALPSTLYGLEPPIR 216

:| HIST | HIST

GALREVEANVEHICOPY 245
                                                                     HER THE STATE OF T
                                                                                                                                                                                                                                                  STUALFORESCHPPREEL 217
                                                                                                                                                                                                                                                                                                                                     | :| ||::| | :|
SESHLWELMESWASIAVEP 186
PALIENT PV SNQLEEVP - 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            O PNEHPERVENGERVP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DYTDELSVFCSSRNLTQ 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PQ----IVFCTARÖGTI 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , Seki, N., Ohara, O.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           le chain - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Length 603;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ooi, G.T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FPP 256
11
PP 287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A:Residues: 1-1531 <NAK>
```

Local Similarity 277 TITTATV 283 351 SLQ1SYV 357 MEGF5 protein - rat A; Gene: MEGF5 Query Match Matches q ζ qq ي 궘 40 qq QC δŏ Çx 9 Çx 셤 G q 5 Ayriffe: Isolation of a thwa varieting ST4 encofetal traphoblast glycoprotein. An antiger Askeression: A5351: MOID:94179356
Askeression: A53531
Askeression: A5531
As C.Accession: A53531, S40087 R:Myers, R.A.; Pahl-Saund, V.; Pavison, M.D.; Young, J.A.; Cheater, A.J.; Stern, P.L. J. Biol. Chem. 269, 9319-9324, 1994 Actross-reterences: EMBL:22928.5 WID:q435654: PIDM:CAAR2324.1; PID:g435655 C)Superlamily: Leavine-rieb sight-2-giyesprotein tepeat Eamology C)Keywords: duplication; glycoprotein; transmembrane protein E) 4 4/29mils: signal sequence #stalus predicted *280; E) 2 429/Freduct: envotebal traphablast glycoprotein 574 #status predicted *3ATC . س A;Cross=references: FMRL:ABC11540; NID:q3449289; FIDN:RAA32460.1; FID:q3449290 Accoletal trophoblast alycoprotein 5T4 precursor - human http://www.c.amos.oncoletal.antigen 5T4 (5T6 precus: Ramo sagiens (man) (5.5pectes: Rome sagiens (5.5pe 117 NRNQLÖVLPETI FÖNNDALSPLTU SENSLÖAVPEKAFPRATTOLKNIQLIFKN-QLSCTFRC 175 126 ALPALESTERVITENBRITTIFESERBIRKEFFERBERFESERFENDEN FREE 234 244 FLASPEETRCHEPPKNAGRIJJEIDYADFGCPATTTTATVPFTRPVVREPTALSSSLAPT 303 999 THE SPECIAL SPECIAL PROPERTY OF SQUEEN SPECIAL SPE 400 STRVGLQRYLQGSSVQLRSLRLTYRNLSGPD--KRLVTLRLPA-----SLAEYTVTQL, 450 66 MIDASSFACTIVIQITTISPO IASTRIPLIZIZISHRSILIALESIL GTARVEALEL 124 75 PTHENDRAGEROLPVIOLIMENQIC------AVERGAPHYMKELERLRI, 116 125 ACT CLOYT DECLESPIENT HOUNSINGLEBVE-PVTPCLPCLPLIPLACNTPTACT PPE 193 184 PLACTANTOPT (VENEZING) PODESCHEPPT POLIZAAPNIPENOVOPTSWPESHV 243 235 TIGL - PTGCSCPASI PGLNVAPVOKSPPSCSGGFAAQVPA - - - - CTLSSGSCPA 284 304 WI.SPTAPATEAPSPPSTAPFTVGFVPQPQ------DCPPSTCLNGGTCHLG----- 348 285 MCSCSNGIVDCROROLTATPANLIPFIMIETRIELNGIRSTPP------GAFSPYR 333 334 KLRRIDLSNNQIAETAPDAFQCT ------PSLNSLVLYGNKITDLPR 374 Saps 6. PLILLPLILLIALGENYQOCPSGFGCSGPGTVECTARGGTTVPREVVPFFTVH YVFENATT - 65 Guery Match Best Local Similarity 25.8%; Pred. No. 1.9e-08; Matches 127; Conserrative 54, Mismatches 267, tubels 182, 50 Guarty Match 8-148: Resident 50, 108-2; Longth 420; Hest Local Similarity 28-18; Prod. Nov. 2.70-08; Matches 103; Conservative 44, Mismatches 121; Endels 99. = A:Experimental source: strain Spraque-Dawley; brain C;Geneties: 451 RPNATYSVCVMP 462 429 RAIQTLHLAGNP 440 A; Gene: MEGF4 S ŝ ŝ 3 <u>a</u> a a 07 ŝ Ś Š

Saleo

```
Pynakayama, M.; Nakajima, D.; Naqase, T.; Namura, N.; Seki, N.; Obara, O.
Genomics 51, 27-34, 1998
Affitte: identification of high-molecular-weight proteins with multiple EGF-like moti
A; Aerence number: 214126; MUID:98360089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A.Status: preliminary: translated from GB/EMBL/DDBJ
A.Moblecule type: mRNA
A.Residues: 1 1523 ×NAK>
A.Cross references: EMBL.AB011531, NID.44442201; PIDN:BAA(2461.1; PIDEA449292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NyAlternate names: slit protein homolog
CiSpecies: Rattus norvegicus (Norway 141)
CiBate: 20-Sep 1999 #sequence_revision 20 Sep 1999 #lext_change 21-141 2000
CiAccession: T19653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             65 LCECSEAARTVKCVNRNLTEVPTDLPAYVRNLFTJTGNQLAVLPAGAFARRPPLAEJAALN 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    137 TERLEMINGLEVSENGLER-----VPPV1--ROLPGITRIRIAGNTRIAQUEPROLAGI, 18H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           234 PSERHEDESYNSEVSETTYVSFPNETBILESTRIEDNALRVERNGTEAELQGE-PHTPVFFF 291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  221 APNIPENTVOTESWESPWYRESHVELASTERTWHITTENAGRELLELDYADFOOT - EPA 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    292 DRINIWACDCHMADWTWELEFEV V<sub>2</sub>052981 TCAYFERMPIPULLELNSADBLACDP (LIPP - 550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           84 SÖNQTASI.RI.PRIJIJ.DI.SHNSIJ.AI.EPGTI.DFANVEAJ.RI.AGI.GI.QQI.DEGI.FSRI.RNI. 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               144 HELICYSTNIGLERVP PVIRCEPT BY THE PLANTERIAGE REPUTATIONAL CULTAVANESIO, 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26.4 ALPODI,SCI,EPPLPI, AAABAPPIOOPE SWEEDWVRPSHVTI,ASEEFTPCHEDRAAGE 26.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           263 LULULAYADEGGEATTITATVETERVVRBETALGSGLAPWULSFTAPAREHERERE (22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          894 T.I. TTPTHPPOPS ---- PVDTNIVARONACISS PPCKNNNTPS DAVING PPTTP 944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 CPSGCGCSQPQTVFCTARQGTTVPPDPDTVG1 YVFENGTTMLDASSFAGLPGLQLLDL. 83
5 CSPOPARODGRIPLARIALVILOWVSSSPTSSASSESSAPFLASAVSADPLPDQCPA 64
                                                                                                                                                                                                                                                                                                               Cholin 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE STATES IN THE STATE OF THE STATES AND THE STATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8.3%; Score 261; DB 2; Length 1523; Harity 26.3%; Fred. No. 1.9c 07; Conservative 41, Mismatches 126; Indels 94
                                                                                                                                                                                                                                                                                                      27 GOQCSO-PQTVFCTARQGTTVPRDVPDTVGLYVFENGTIMIDASSFAGLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       725 CPEQCTOVE TVVRCSNRGLHTLPKGMPKDVTELYLEGNHLTAV----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            862 stilennender († 1717)
862 stilenender († 1717)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _
_
_
2 CSRVP-----ILLPLLLLLALG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   189 AALQELPVSINISLQALP-----
```

```
P.Rottherg, J.M., Janets, T.R., C. dmus, P.R., Artavaris Tsykonas, S., Gones Lev. 4, 213-2167, 1990
Genes Lev. 4, 213-2167, 1990
A.M.Titler, 5412, an extranellular princip beressary for development of midline this and A.K.Fretener number. Askido, Mulbioldyrec.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    E.Echherg, 3.M. Hariley, F.A., Willer, F., Artarani, Teatonas, S. Cell Sy, 1047-1059, 1988
Affilds, 5414. An EGF homologous loons of D. Melamogaster intoled in the development Aymeterner number: A31640; MulD:89077533
AARVENSION: A31640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        terrothe street alpha 2 gl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sill protein i precursor - fruit fig (trassphila metamogaster)
Species: Brosophila metamogaster
Sipreies: Brosophila metamogaster
Cloude: 30 Archiff Teachers List of 30 April 20 Teacher 17 Nove 2000
Cloude: 30 Archiff Teacher Sibility
P. Parling I. M. Janebs, 18 F. C. Juni, C. F., Artavasis Triponas, S.
Artavasis A. M. Janebs, 1940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       proteoglych cailonyl terminal homology (FDAL) proteoglych amino terminal bomology (FDAL) lending libia alpha 2 diyesprotein repeat homology (LRL) termine rich alpha 2 diyesprotein repeat homology (LRL) lending rich alpha 2 diyesprotein repeat homology (LRL) lending rich alpha 2 diyesprotein repeat homology (LRL) receiper rich alpha 2 diyesprotein repeat homology (LRL) proteoglycan amino terminal homology (FNAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LKR4>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F:744-7e6/femain: tenniner:ich aigha 2 qlycografin regeat homolody sIKI50-F:767-790/Domain: leucine-rich alpha-2-qlycoprotein repeat homolody sIR16>
TEGLECT TPLELAGNTE LAQLEPPPI AGLAALQELDVS---------NL 199
                                                            LRILLAAARNPENCVCPLSWEGPWVRESHVTLASPEET 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                874 - ROAEPEQMEDELLISTPSSSEVORGEVENDTIJAKUNACEFEDPOGNGAQOV-----ALPO 1927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QDOTPRETCLNGSTCHLGTKHHLACLOPEG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.56 | PFYGG - - - - - - - - - - 1 GEPGY BGK BY FEMILIANY SUNNATICIA! EFGPUSCIA PA 6.76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         · 1.928 »
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LRR6
                                                                                                                                                                                                                                                                                                                                                                                                                                                      292 FYHEREKINGSELLELFYAROGYOVAFTFORVOTTERVVERPTAL SSSLAPTWLSPTAPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A.P.atis. profiminary
A.M.docule 17pc. #R.NA
A.R.Goldocs. I B.S.B.
A.C.F.GS references, CREXFAGEQ, MITT-48G14; PHARCAAPPG10.1; PID:48615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A.D. Town in the concess.

A.D. Ditterna. 18549

2. Supertuming unassisted 1937 related principa. ESP North 197, forming the control of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        proceed/ycun amino ferminal homology dPAH25-
leucine rich alpha 2 diyeoprotein repeat homology
                                                                                                                                                                                                                                                                                              A.Molecule L<sub>fper</sub> DNA
A.Residines, 881 1192, G7.1185 1404, OFF.1463 1464, YHA7 SENDA
A.Groom relecences, GB.M23513, NIB.4310999, FIB.4511357
C.Geneties:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A,Cruss references. PlyBase.PB4n000425
A.intinus. 1951/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIT TEAFSFESTAFFTVJFVFQP
                                                                                                                                                                                                                                 200 SLOALPGDESGLEPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361 FTGLYCESOM 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             977 YTCARCETNI 986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FlyBase:sli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /Doma:a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F) 512 537/20main.
F) 547 571/20main.
F) 572 595/20main.
L) 576 (13) Teamain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F; 228 272,44cma'u;
F; 288 313,45cmaiu;
F; 323-346/Domaiu,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , Toomalm.
, Themair.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              F;620-643/Domain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F,651-695,1::main.
F;708-733,Domain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               F; 471 - 494/Domain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A36665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ي.
<u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ं
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C.Superfamily, datasatored ESP related proteins; ESF homology, Naudine fiel alpha 2-gipes ES6-94 (Pandin protein agent to mind bencher, homology -FAEL.
E.66-94 (Pandin protein et al. pha 2-gipe protein agent bencher, LEER.
E.101-124/Fannin bencher et al. pha 2-gipe protein agent bencher, LEER.
E.149-172 (Pandin bencher et al. pha 2-gipe protein agent bencher, term.
E.149-172 (Pandin bencher et al. pha 2-gipe protein agent bencher, term.
E.149-172 (Pandin bencher et al. pha 2-gipe protein agent bencher, term.
E.149-172 (Pandin bencher et al. pha 2-gipe protein agent bencher, term.
E.149-172 (Pandin bencher et al. pha 2-gipe protein agent bencher, term.
E.149-172 (Pandin bencher) (Pandin bencher) agent bencher et al. pha 2-gipe protein agent pha 2-gipe protein agent protein agent pha 2-gipe pha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rikothherg, J.M.: Jacobs, J.R.: Goodman, C.S.: Artavanis-Tsakonas, S. Genes Dev. 4, 2169-2187, 1940
Genes Dev. 4, 2169-2187, 1940
ArTitle: Sift: an extracellular protein necessary for development of midline glia and co
A: Reforence number: A24646; MHH: 91694645
A: Accession: B36665
                                                                                                                                                                                                                                                                                                                                                                                                     slit protein 2 precursor - truit fly (Brosophila melamowaster)
Cuspedies: Drosophila melamoya-tor
Cuspete: John 1991 soquomom-revision 30-Apr-1991 #text_change 19-May-2000
Chacession: Ranana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            519 CPAMCHO EGITVECTOPPLPPTPPTTT HTTELLENEMELGELESEGLEGELTHLVRLE 577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DRIFFELLILDL/SURSELALEPG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   578 I MPROCTOTRIBRA I SASHIÇILA, OFNE SAL SARMELOLAÇER LELELE AÇISEVMEN EVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           638. SPEHUNSTITSTAT APNPENYNCHLAWFAETVEFFSLAGGAAFGGALFEVELVQLELLLINS (637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BFKGSBENSEGTIGTGYTPPSGTGTGTTVVAGSFNGEKELPRGTPAB1SELGEBNELBGT 757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                indels 165, Capo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PDTVCLY 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P.450-444/Powells Protectives of the protection 
                                                323 FTVGPVFQPQPC--PPSTC1-----NGCTCHLGTRHH -1.ACLCPEGFFGLAGACE 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VEALKLAGLGLQQLDEGLFSRLRNLHDLDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.1%, Score 255.5, EB 2, Learth 1465, 21.4%; Prod. No. 3.7e 07.
Live FD: Mismatches 169, indels 165,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .....SPMQLERVF...FV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         59 VPPNGITMLYASSFAGLFGLG11 F1 SQNQ1AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A:Cross-references: FlyBase:FBqn0003425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24 CPSGCGCSQPQTVPCTARGCTTVPRDVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8.1
Best Lineal Similarity 21.4
Matches 105: Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-1469 <RCT>
;Cross-references: GB:X53959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       113 ILDIAK ·······
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        149 ------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gene: FlyBase:sli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  869
ã
                                                                                                       2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qq
```

```
,168-169,'X',171-172 <ROT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   235 NSLASVPEGLWASLGOPNWEMERGFELSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     242 HVTLASPEETRCHFPPKNACRILL 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 283 KPKMFSQNPTRCAGPEAVKGQTLL 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A,Molecule type, protein
A;Posidues: 145-166,'T',1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  [ 560 cLA2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A, Fesidues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ē
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            논
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Communent: The function of this plasma protein is not known.
Communent: The function of this plasma 2 alycoprotein, leucine rich alpha-1-glycoprotein report (Keywords) duplication, alycoprotein plasma, and more report (Keywords) duplication, alycoprotein plasma, and more part (Kers).
E.80 -81 / Samain leucine-rich alpha-2 alycoprotein report lendledy (KER).
E.80 -105 / Nemain leucine-rich alpha-2 alycoprotein report landledy (KER).
E.81 06-125 / Armain leucine-rich alpha-2 alycoprotein report landledy (KER).
E.81 177 / Mexain leucine-rich alpha-2 alycoprotein report landledy (KER).
E.82 2 417 / Mexain leucine-rich alpha-2 alycoprotein report landledy (KER).
E.82 2 417 / Mexain leucine-rich alpha-2 alycoprotein report landledy (KER).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAccession: A03211
RCTAPahashi, N : Takahashi, Y ; Patram, P.W.
RCTAPahashi, N : Takahashi, Y ; Patram, P.W.
RCTAPahashi, N : Takahashi, Y ; Patram, P.W.
RTAPahashi, N : Takahashi, Y ; Patram, P.W.
RTILLE: Periodicity of Periodicity of Periodicity of Periodicity of Periodicity of Periodicity of Africa and Appendicity of Periodicity of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C.Species: Homo sapiens (man)
C.Dafor: 27 Nov 1945 #sequence_regision 27.Nov-1985 #text_change 05.Dec-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    160 ----IRGURGUTRURIAGNITRIAGURPHUAGIAALQEUDVS-------NU 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   519 CPAMCHC-ECTTVDCTGREKETPREIPHTFELLENDNELGRISSEGEFGREPHLVKLE 577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              59 VPENGITMI, DASSEAGI PGIQI LPI, SQNQIAS----LRLPRLLLLDLSHNSLLALEPG 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      578 LIKRNOLTGTEPNAFFGASHLOELGLGENKLIKHISNKMFLGIHQLKTLNLYDNQLSCVMPG 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        113 ILDTAN------VEALPLACTGLOCTUFGLFSPLPNLHDLDV--- 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         638 SFEHLNSLISLNLASNPFNCNCHLAWFAECVRKKSLINGGAARGGAPSKVRDVQIKDLPHS 697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   698 BERGSSENSENDINGTOPPSTOTGIVVACSPNOLKEIPRGIPAGISELYLESNEIBOI 757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   · · LRLLAAARNPENCVOPLSWFGPWVRESHVTLASPEET 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       252 RCHPPPKNAGRILLEELDYADFGCPATTTTATVPTTRPVVREPTALSSSLAPTWLSPTAPA 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E3791-811/Ammain Leavine rich altha 2 glycoprotein repeat bewaregy LETT E3815-838 Comming to review rich altha 2 glycoprotein repeat bewalegy class B 1846-86/Commain proteoglycon carboxyl terminal heavingy cPC4 e184-8 E31068-106 (Temmin BTF bewaley PCF).

E31068-1069/Domain E0F bewaley PCFP:
E31068-1069/Domain E0F bewalegy <E3F)
                                                                                                                                                                                                                                                                                                                                                                                  8 19; Shorr 255 5; PR 2, Longth 1480.
21.48; Prod. No. 3.80-07;
Live 52; Mismatches 168; Indels 165; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         874 FCAEPEGMKTIKLILSTPSSSFVCFGRVKNDILAKCNACFEQPOQNQAQCV----ALPQ 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOOPSYHCKHPEPMIDA/YGNE/PANAT/CTVLEEGRESCO/APS 97F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .....PDTVGLY 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bearing right alphastagips open win report homorogy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----BDNQLERVP---PV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leucine-rich alpha-2-qlycoprotein - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 CPSGCCCSQPQTVPCTARQGTTVPRDVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches 105, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              200 SLOALPODLSGLFPR-
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A:Molecule type: protein
A:Pesidues: 1-312 /TAK>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 FTGLYCESOM 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 977 YTGARCETNI 986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  928 PEYOT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Agéession: A03211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P/224 249 Teamsit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NBHUA2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
```

```
platelet membrane glycoprotein V precursor - human C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Nate 12 4m 1344 Esquence_tovision 24 Feb 1344 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 1444 # 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A)Cross-references: EMBL:223091; RID:9312501; PIDN:CAA80637.1; PID:q312502
R:Shimcmura, T.; Fujimura, K.; Maehama, S.; Takemoto, M.; Oda, K.; Fujimoto, T.; Oyam
Blood 75, 2349-2356, 1990
A. Fille: Rapid purification and characterization of human platelet glycoprotein V: th
A. Fuference number Aroled, MHTD:90276263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A, McLecule type, protein

A, Researce 455 841, X. 346, 990, X. 1502 395, X. 397,188 268, T. 216.27 for Y. 17-53:1

A, Restauce 455 841, X. 346, 990, X. 1502 395, X. 397,188 268, T. 216.27 for X. 1504, F.262*809, Desain, proteogly can context; terminal borning offer the context of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ajkkiter this partecijtie frageent was designated popride M392
A,Accession B35483
A,Mohemole type fraction
A,Mohemole type (1910, W7) to 1 G, acc 468, 787, 470 - 900)
A,Nohemole this material was designated popride M393 but may contain two poprides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               199 ISTOALDG------DISGLEPRIRIJAAARNPENTVFPISWEGPWVRPS 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               115 NQLEVLEVSWIHGUKALGHLDISGNPUPRIPPIN ANFTHIPTI DIGENQLETLEPDIJJR 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   162 GLRGLTRLRLAGN--------TRIAQLRPEDLAGLAALOELDVSN 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              175 GPLQIJEPI HIJPGNKIJOVI GKPIJJJAOPPI PYI PI NGNKIJAPVAAGAPOGI PQIDMI DI SN. 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----NPWICDONLSDLYRWLQAQ 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           74 GLPGLQLLDLSQNQTASLR-----LPRLLLTDLSHNSLLALEPG1-----LDTANVEA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels 105; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25 PSGQQ------GSQPQLVFGTARQGTTVPFDVPFDTVGLYVFENGLTMLDASSFA 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 PKDCOVFKSDHGSS1SCOPF-----AE1PGYLPADTVHLAVEFFNUTHLPANLLO 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                >100 ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 7.8%; Score 243.5; DB 1; Length A12; Best Local Similarity 27.5%; Prod. No. 3.2e-07; Matches 89; Conservative 36, Mismatches 94; Indels 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A. Addression. 125483
A. Moldedald Upper protein
A. Edsturs: 152 (1947) Pf., 284 (177, 174, 179 (17, 281, 183, 11, 289
```

:77

```
A)Cross-references: GB:AF291447
C)Comment: This protein, a new member of the neuronal leucine rich repeat protein tam
in protein-protein interaction and functions as a cell adhesion molecule or soluble l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ribolmes, G.P.; Negus, K.; Burridge, L.; Raman, S.; Algar, E.; Yamada, T.; Little, M. Micch. Dev. 29, 77-77, 1998.
Micch. Dev. 29, 77-77, 1998.
A.Filo-: Distinct. But overlapping expression patterns of two vertebrate slit homologs A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
A.Reference number. 222177; MUID:99279238.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           secreted leucine-rich repeat-containing protein SLIT2 - mouse (fraqment) N:Alternate names: neurogenic extracellular slit protein C;Species: Mus musculus (house mouse) C;Eute: 11 Jan 2000 **sequence: en isi n il Jan 2000 **sequence: massive: #42626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACT OF QQLDEGLESRIRNLHDLD 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         183 WPEALPHZEILMESPHPTIJFTPMWWPQFLLKIRSLVIAGTEVPDDALVGTENERSIS 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24° TTPABLARVETVALJEAVYLEFILFFANYFATARITARITARITARIELEFILGIAHRE DLVSIDS 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIBIBIANWIRIAQLEFEELANIAAINPINVANISIQAL BAHASHUPRER 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     303 LAVIANLPIELRETEATANIPELSYTHPNAFPREDKEFSEMINSNALSALYBETTESL-PALK 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           217 LLAAABNPTNCVGTLSWFOPWVREGHVTLAŞPHFFFFFFFFFRAGRELLERLINAAFFCOPA 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             277 TITITATVPTIEPVVBHPTALSELL---APTWLSPTAPALEAPSPPSTAPPTVOPVPQDD 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     464 LLENTLREKFYVHSPGTLUPGTTPKEG - GLYTCTATNLVGADLKSTMIKVGFVPQDN 521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  388 --SELLOTEPVSPPSI PVOLOPPOSSVOI BSI PETVRNI SOPORBI VTER RASIARY 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         222; Indels 186; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -- OPOIVECTAROGIIVP 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 PLOTHVLGTATTALVQAGDKKVDCPQLCTCETRPWFTPRSTYMEASTVFNFUKGLLNFP 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STORY THE SECTION OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MONTHENETECECVIEWIN - - MAKINIEFFFFFFFFFFFFFFFFFGGGAVEGVERDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 707;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48 RDVPPDTVGLYVFENGITMLDASSFAGLP GLQLLDLSQNQIASL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 16 -----METOT PT 1-APPSPDS1110VFADSTVSLBCBATABPQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7.6%, Sepre 237; 19.2;
20.7%; pred No. 1.9e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----PVIRGLRG -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 PLILPLLLLALGPOVO" :--- PPSCACO"S---- 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Substy Match: 7.0%, Sepre 237: 198

Bost Loral Similarity 20.7%; Pred No. 1.96-
Matchew 127; Conservative 90; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                324 THEFTERMATTORY STREET, PROFIT OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      149 VSDNGLEPVP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   115 --- DTANVEALPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     446 TVT2LRPNATYSVCV 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  579 MUTHLKPSTEYKICL 594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C. Keywords. cell adhesion
                                                                                                             - Print
                       A;Molecule type: mRNA
A;Residues: 1,707 -FD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Gene: nlrr-3
                                                                                                             A, Ecsidues !
                                                                                                                                                                                                                                                                                                                                                                                                        C;Geneties:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ź
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           쉳
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7
A:Note: this proteolytic tragment was designated peptide M401
B:231-W. B.S.: Wall, D.A.
Thromb. Res. 53, 31-44, 1689
A:Tirloe: Res. 53, 31-44, 1689
A:Tirloe: Plateler members diversity of the chrombin sensitive quarticle: Plateler members diversity of the chrombin sensitive quarterer number: A60432; MUID:8916231
A:Recession: A60432
A:Recession: A77 49; Prov. Nat. Recession: A7507
A:Recent number: A7507; MUID:93391348
A:Recent number: A7507
A:Residues: 1-560 <RES.
A:Residues: 1-560 <RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A)Map position: Spier-Squer
C)Superfamily, Leacine rid, alpha D.alycoprotein repeat hamalody
C)Keywords: blocked amino end: glycoprotein; platelet; tandem repeat; transmembrane prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C.Accession: 3c7763
C.Accession: 3c7763
C.Accession: 3c7763
C.Accession: 3c7763
C.Accession: 3c7763
C.Accession: 3c7763
C.Accession: 3c7763; PMID:11549284
C.A.Contents: Fibresare, ac7763; PMID:11549284
C.A.Contents: Fibresare, ac7163; PMID:11549284
C.A.Contents: Fibresare, ac7163; PMID:11549284
C.A.Contents: Fibresare, ac7163
C.A.Contents: C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Contents
C.A.Content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7.7%, Score 246, DB 2, Leadth 560.
27.2%, Pred. No. 9.9e-07;
tire 28; Mismatches 111; indels 152; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cisperies: Buttus norregions (Norway rut)
CiDate: 01 Feb_2007 #sequence_revision 91 Feb-2002 #fext_change 01-Feb-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CT_LYVERSITMELASELAGELEGEAGAG; ASE-FELAGICHELNSELALE 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             111 PGILDT-ANVEALPLAGIGIQQLDFGL.....FSRLRNLHD 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      307 AAATENLEELEYLIVILSTELSALM-PARESTSK LIVLALHENEL ALLEELESEERE 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --SNLS------LQALPGDLSGLFPRLRLLAAARNPFNCV 228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  567. QVŠERPNEEBALPBALPRALERNESSERSVQI 194NQI BTERGOVEGAEPPLTRVELGHNSWPCD 1426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               229 RIGHARSTWYRDSHVILASPEELIROHFFRARGRILLELDYALFFORMUTTALVFFER LRÎ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A:Cross-reterences: GB:L11238; NID:q388759; PIDN:AAA03069.1; PID:q388760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C:Comment: This platelet membrane protein is a substrate for thrombin. C:Comment: The amino end of the intact protein is blocked. :Comment: This protein is absent in Bernard-Soulier syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             427 CCLGPFICWLRC-HICLVOCEEPPPCAGESAHAGLPLWALPSCFARFFG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          163 ----LRÇI TRI PI ASIN I --- PIAQLIPERI AGLAAD CELIV ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       479 P--PRPAADSSS------EAPVIIPALAPNSSEP 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  288 PVVREFTALSSSLAPTWLSFTAFATEAPSPFSTAPTVGP 327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DROLERVPPVIRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CT EXVERGITMENASA AGLIGICELEGAÇÃO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ra :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: GDP:230236; OMIM:173511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neuronal leucine-rich repeat protein-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      109; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Bost Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene: GDB:GP5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        146 LDVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genetins:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pp
```

165

PETYWITPSGKR

7

Length 536;

:: ::

```
Title: The deduced protein sequence of the human carboxypeptidase N high molecular weigheterence number: A34901; MUID:90094386
Acression: A44901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R.Tan, F.; Weerasinghe, D.K.; Skidgel, P.A.; Tamei, H.; Kaul, P.K.; Peninson, I.B.; Sch
                                                                                                                                                                                                                                                                                                                                                                                                                                                   13;
           AJCFOSS FOLOFOROGS - PMB-AP074960; MJD-94151258; PJD-94151259; PJDMJAAB94445.
O'Geneties:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CiSpecies: Homo sapiens (man)
CiDate: 20-Jul-1990 #sequence_revision 20 Jul 1990 #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P177-100/1962-100 in control of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          223 CHSECTOLD-TXVROSNKOLKVLPKCTPKDVTELYLDONQFTLV-PKELSNYKHLTLIDL 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 84 SQNQIASI ------PLPRLLLLIDI,SHNST LALEPGTI,DTANVEALRLAGI,GLQQLDEGLF 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 138 SELENLHDLDVSDNGLERVPPV1KGLRGLTRIRLAGNTR1AQLRFEDLAGLAALQELDVS 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         259 KNAGRELLEELDYAAPFGCPATTTTATVPTTRPVVREPTALSSSLAPTWESPTAPATEAPSP 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----QPQDCP-----PSTCLNGGTCHL--GTRHHLACL 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           281 SNNRISTLSNQXFSNMTQLLTLILSYNRLRCIPPRTFD-----GLKSL---- 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     198 NISIQALPGDLSCLFPRERLAAARNPFNCVCPLSWFGPWVRESHV1LASPEETRCHFPP 257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   487 EMADKILLITTPSKKFTCQ-----------GPMDITIQAKCNPCLSN 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4.22 PORNIGITONNIPVI PYPOTOPYOFKOOD JODAPHIACI SNPOKHOGTCHLKEGENAGFWCT 481
                                                                                                                                                                                                                                                                                                                        Guery Match 7.4%; Score 231; 198.2; Longth 1025; Best Local Similarity 21.69, Prod R f for \mathcal{U}_{\ell}. Matches 89; Conservative 32; Mismatches 122; Indels 128; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24 CPSGCQCSQPQTVFCTARQGTTVPRDVPPDTVGLYVFENGITMLDASSFAGLPGLDDL 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A.Cross-reterences CR-105158; NIB:q174935; PION;AAA51921,1; PID:q179936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A:Map position: 6q25.3-6q26
C:Superfamily: leucine-rich alpha-2-glycoprotein repeat homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lysine carboxypeptidase (EC 3.4.17.3) 83K chain - human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C:Keywords: hydrolase; metallo carboxypeptidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Biol. Chem. 265, 13-19, 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Cross-references: GDB:127893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            457 CPEGFTGLYCE 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      482 CADGFEGENCE 492
A; Residues: 1-1025 < HOL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-536 <TAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   418 PSTAPPTVGPVP-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Accession: A34901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Gene: GDB:ACBP
                                                                                                                                                              A;Gene: Slit2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>;</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
```

```
136 LESELENLHDI.DVSDNQLERVP-PV1RGLFCLTRLRLAGNTR1AQURPEULAGLAALQEL 194
                                                                                                                                                                                                                                                                                                                                                         85 QNQIASER-----EPRELEEDESHNSLLALEPGILDTANVEALRLAGIG---LQQLDFG 135
                                                                                                                                                                                                                                                                           61 DIQLOQERPDAFGGLPRLEDLEVIGSSFLNLSINIF -- SNLISLOKLITLNFNMLKALFG 118
                                                                         Indels 17; Caps
                                                                                                                           25 PSGCGCSQPQTVFCTAEGGTTVPRFVPPDTVGLYVFENGTTMLDASSFAGLFGLQLLDLS B4
                                                                                                                                                                       2. PM3GTGT - VQFVFGSBEILLATVPI I ; PPVTRN I ; PVFTRPI FLATBAPPINHPH PRVVII. 60.
                                                                      27; Mismatches 87;
                          7 18; Shore 222 5; PH 2
34.8%; Pred. No. 9.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                             195 DVSNI SLOALPGDISGLEPRL 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                          178 KLSNNALSGLP---QGVFGKL 195
Gacry Match
Best Local Similarity 34.co.,
These 70; Conservative
                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                Ö
```

Search completed: September 17, 2002, 09:53:44



GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen (+4

OM protein · protein search, using sw model

September 17, 2002, 69 50.49 , Serieb 'ime 19.49 Seconds (without alignments) 1716,404 Million cell updates/sec Fall Off.

Title: Pertect score: Sequence:

PUMGEPGPGLOSPLHAKPYI 598 US-Üü-ü44-44h-hu 3135 1 MCSRVPLLLPLLLLALGPG

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

105224 seqs, 38719550 residues Searched:

105534 otal number of hits satisfying chosen parameters.

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_40;* Database :

Pred No is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is delived by analysis of the total score distribution

SUMMARIES

	10 10 10 10 10 10 10 10 10 10 10 10 10 1	002833 papin hamad		homo			_	F24014 drosophila	008742 mus muscuia		F02750 home sapies	1940197 Some Supere	P22792 Nome saples	Charlest Congress Frederic		PSIRRE DOMO Sapten	hôthe	110690 mycobacteri		P28653 mus musculu	P47853 rattus norv	010081 # 81 # 1215 #0	OUZE/8 canis famil	ualdes owou entroic		P23515 homo sapien	Odmywa Aquus cabal	٠.,	റ്റേക്ക് നിട്ടാവി വ	homo	homo	30 ovis	s gallus	n46403 equus cabal
SUMMARIES	ID	ALS_PAPHA	ALS_HTMAN	GAC1_HUMAN	GFFA_HHMAN	ALS_PAT	At S_MinisE	SULT_DROME	GIV_MOUSE	GPV_PAT	ADDI_HUMAN	CPV_HEMAN	CBF8_HUMAN	FILTB_ACKET	CHAR_BOVIN	PPEP_HUMAN	PKD:_HUMAN	ҮК Ө2_МҮ?Т	Y848_HIMAN	PGS1_MOUSE	priS1_FAT	PMCH_MCHSS	PSS1_CANFA	PLP4_HEMAN	TLP4_PANEA	OMGP_HIIMAN	TI.P4_HOPSE	PGS1_HTMAN	TI.R1_MOUSE	GAPP_HUMAN	Y G I R_HITMAN	PGS1_SHEEP	- 1	PGS1_HOPSE
	DB.	_	_	_	_	,—	_	_	-	-	- 4	٠.	F-4	. 4			~-	_	_	_	_	_	_			·		_	_	٠.	-	7	_	_
		6.05	605	713	62.6	603	503	1480	567	267	315	560	536	331	34.1	7 # 7	4.50.5	7:1	477	369	ţ	440	£.33	Ţ.	ž Ž	440	843	378	795	ر. بر بر	946	369	357	372
æ	Query Match Length	10.3	ت ص					8.		7.8	. 3	7.7	- 1		æ. G	۳ -				0.9	e G						5		σ. Έ		r.	5.8		ω
	Score	322	362	283.5	282	281 5	278 €	25.55 13.55 13.55	253	244	243.5	0.53	12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	215.5	213.5	208 5		193 ⊏	193.5	189	- B	188.5	188	185.5	186 5	186	184.5	- 1	183.5	<u>x</u>		П		181
	Result No.	П	(1	ĸ	4	G,	اگ	7	œ	σ.	10	11	C1	13	1.4	15	16	17	18	19	20	딛	C1	23	2.4	25	26	27	28	ਰ. ਟ	30	31	32	33

34	180	5.7	369	_	PGS1_BOVIN	P21809 bos taurus
LC)	179	5.7	905	Н	TLE3_MOUSE	Q99mbl mus musculu
36	178.5	L	1024	_	POPE_FALSE	Q9rbs2 ralatonia a
P4 60	178	7.7	1019	_	PLP7_HPMAN	ç⁴n;kl homo sapie
38	177.5	5.7	1050	-	TLR7_MOUSE	P58681 mus muscul
36	177.5	5.7	2493	, -1	CYAA_USTMA	P49606 ustilago ma
40	175	5.6	343	Н	LUM_CHICK	P51890 gallus gall
	174.5	2)	1.50	. 4	TOP MOUSE	Tuber to stone sweeping
42	174	5.6	859		TI.R5_MOUSE	Q9jlf7 mus muscul
43	173,5	ر ا	421	-	OMP_HUMAN	nagas pomo sapie
44	173.5	5.5	826	Н	TLR4_PAPAN	C915F2 papio anubi
4.5	173.5	ις) ις)	2300	-	CYAA NEUCR	

PAPPHA STANDARD; PRT; 605 AA. 33, 0V-1997 (Rel. 35, Created) 0V-1997 (Rel. 35, Last sequence update) NOV-1997 (Rel. 35, Last sequence update) 11n-11ke growth factor binding protein complex acid labile cursor (ALE). 12 OR ALE. 0 handrags (Hamadras baboon). 0 handrags (Hamadras baboon). 13 OPTION OF ALE	N I C	RESULI I				
	107	ALS_PAPHA	STANDARD;	PKT;	605 AA.	
	25	01-NOV-1997	(Rel. 35, Creat	ed)	100	
	E	01-MAE-2002	(Rel. 33, Last (Rel. 41, 13st	annotation	update) n update)	
	30	Insulin-like	growth factor	binding p	rotein complex acid labile	chain
	a z	precursor (A	. (S.). S.			
	SO	Papio hamadr	yas (Hamadryas	baboon).		
	00	Eukaryota; M	letazoa; Chordat	la, Crania	ita, Vertebrata, Euteleosto	mi;
	88	Mammalia; Eu	itheria; Primate	es: Catarr	hini: Cercopithecidae;	
	3 8	NCB: TaxID 3	nae; rapio. 1557:			
	X.					
	<u> }</u>	SECHENCE FRO	M N A			
	Z.	TISSUE-Liver		0		
	x; s 2, p	MEDLINE-9/04	D/14; PubMed=¥E Bowtor b C .	186027;		
	Z E	"The cloning	Baxtel K.C.; and expression	n of the by	aboon acid-labile subunit	of the
	. <u>.</u> .	insulin-like	growth factor	binding p.	notein complex.",	
	;; 24	Biographem, Bio	opens was come	auc. 227 8	[97+992]	
	٤:	Nollonid	I INVOINED IN F	MINITE IN	A THAT SUCTIONS THAT PERSONS THAT PERSONS THAT PERSONS THE PERSONS	SULT
	33	HE WINDY	TO COMPLEXES. F	AND REPERTURAL	IGAND KINDING OF CELL ADER	SION.
	3 5	40 1-350 40 1-350	FORMS A TERNAL	AR COMPLEA	SIMILARITY).	нт
	CC	-!- SUBCELLU	LAR LOCATION: E	extracellu	lar.	
	8	-!- SIMILAFI	TY: CONTAINS 25	LEUCTNE-	PICH PEPEATS (LEP).	
	5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	3 5	SSIMS STILL	POST CHILLY IS C.	SPyria Julia O Of Piolo	AT INSTITUTION OF THE TAR IN THE STREET	ontetation
	3 3	the basorean	swiss institut	. Institute	e. There are no restrict	jons on
	-	draft sky	Profit Taxit	ab 3.50. 11	lond as its contest is	11. 10.
	Ċ	medifiéd and	(Pis statement	is not re	emerced. Usage by and for	L CORMON
	<i>:</i> -	entities beg	tarres a heats	magnerater s	The latter was a straight of the	ياب مجتسية ويلاد
	<u>}-</u> ;	of stad on c	mail to license	dis-dsib.	ch).	
ERSE, F23445, NOLANNOLDIE ERSE, F2345, NOLANNOLDIE INCEPPRO, IPROUGHS; LRR.Cten INCEPPRO, IPROUGHS; LRR.Cten INCEPPRO, IPROUGHS; LRR.LT INCEPPRO, IPROUGHS; LRR.LT INCEPPRO, IPROUGHS; LRR.LT INCEPPRO, IPROUGHS; ISP. PERMIS; PROUGHS; LRR.LT PERMIS; PROUGHS; LRR.LT SMAPT; SMOORS; LRR.LT SMAPT; SMOORS; LRR.LT SMART; SMOORS; LRR.LT SMART; SMOORS; LRR.LT SMART; SMOORS; LRR.LT SMART; SWOORS; LRR.LT SMART; SMOORS; LRR.LT SMART; SHOORS; LRR.LT SMART; SHOORS; LRR.LT SMART; SHOORS; LRR.LT SMART; SHOORS; LRR.LT SMART; SHOORS; LRR.LT SMART; SHOORS; LRR.LT SISAAL.	S 3	TATAL STATE	CHANGE AND A COLUMN	2007 CD EV		
INTERPRO 1 PROUDED 1 INF. INTERPRO 1 INF. 19. PERMI PROUDED 1 INF. PERMI PROUDED 1 INF. SMART SMOORED 1 INF. 1 INF. SMART SMOORED 1 INF. 1 INF. SMART SMOORED 1 INF. SMART SM		1 MINIT	TANNOT PRINCIPLE	11 ED_CD3.		
Interpro; IPR000483; LRR_Cter InterPro; IPR000483; LRR_Vter InterPro; IPR00593; LRR_Vtp. InterPro; IPR05991; LRR_Vtp. Pram: PP00459; IRR_Vtp. Pram: PP01462; LRRNC; I. PPNWTS; PP001462; LRRNC; I. SWAFT; SW00370; LER, 3. SWAFT; SW00042; LEFNC; I. SWAFT; SW00043; LEFNC; I. SWAFT; SW00043; LEFNC; I. SWAFT; SW00043; LEFNC; I.	1 6	InterPro: 1F	F, LACK.			
InterPro; IPPONON322; IPP_Nter InterPro; IPPONENCE; IFE_10 InterPro; IPPONENCE; IPE_10 Pram; PPONGNO, IPP; 19; Pram; PPONGNO, IPP; 19; Pram; PPONGNO, IPP; 19; PPINTS; PPONONON, IERPITCHPPT SNAPT; SMOONS; IERPIT; 1; SMAPT; SMOONS; IEPPON; 1; Glycoprotein; IEPPON; 11; Glycoprotein; IEPPONENCE; PP	. A	Interpro: 16	PR000483: LRR CT	erm.		
Interfree, IPPG03503, IPPE-04 Interfree, IPPG03503, IRR-57P, Fram: PF04559, IPPE, 19. Pfam: PF01463, IEPECT; 1. Pfam: PF01462, IRRNF, 1. PPINTS; PPG0019, IEPECT; 1. SMAPT, SMG036, IEPECT; 1. SMAPT, SMG038, IEPECT; 1. SMAPT, SMG038, IEPECT; 1. SMAPT, SMG036, IEPECT; 1. SMAPT, SMG036, IEPECT; 1. SMAPT, SMG036, IEPECT; 1.	E CI	IsterPro; IF	PROCESS IPP Nt	.erm.		
Interfro, IFRGUSSI, IRR_UYP. Frien PPUMAS, IPPU, 19. Pfam; PFO1463; ILPRCF; 1. Pfam; PFO1462; ILRNF; 1. PRINTS; PROADIQ; ILEMPCHPPT SMART; SMOOR2; IRRW; 1. SMART; SMOOR2; ILPRCF; 1. SMART; SMOOR3; ILPRCF; 1.	<u>:-</u>	InterPro, 18	PERMANANT, TAPPIN	±-		
Prime: PPFU7A59, IPP; 19. Prime: PPFU7A53, LPRCT; 1. PPFURTS; PPFU7D1; LPFUPLCHPPT SNAFT; SM00370, LEF, 2. SMAPT; SM00042; LPPPT; 1. SMAPT; SM00042; LPPPT; 1. SMAPT; SM00043; LEFUP; 1. SMAPT; SM00359; LPP_TPP; 1.	3	InterPro, 18	'KOUSS91; I.RR_t;	/p.		
Pfam; PFO1463; LRRCT; 1. Pfam; PFO1462; LRRNT; 1. PRIMES; DROAO19; LERIPICHPPT SMAFT; SMO6370; LEE, 2. SMAPT; SMO0082; LPPTT; 1 SMAPT; SMO0082; LPPTTP; 1 SMAPT; SMO369; LPPTTPP; 11. G19COPPOLEIN; Laucine-rich registrant	Š	PTAM; PFEUSE	10; LPP; 19.			
Pram; PF01462; IRRNF; 1. PRINTS; PROAG19; IERPICHPPT SMAFT, SMOGNO; IER, 2. SMART, SMOGNO; IERPIT; 1 SMART, SMOGOL3; IERPIT; 1 SMART, SMOGOS; IEPPITP; 11. SMART; SMOGOS; IEPPITP; 11. 3 JYCOPPOLETE: Leucine-rich registrant.	<u>a</u> C.	Pfam; PF0146	3; LPRCT; 1.			
PPINIS PROMOTO, LEADING HEPT SMART, SMOORQ; LERG, 2. SMART, SMOORQ; LERWY; 1. SMART, SMOORQ; LERWY; 1. SMART, SMOORQ; LERWY; 11. SMART; SMOORQ; Leucine-Trich registrant.	P. P.	Pfam; PF0146	52; LERNE; 1.			
SMART SMOONS 1 IRPUT: 1 SMART SMOONS 1 IRPUT: 1 SMART SMOONS LEFNT: 1. SMART SMOONS 1 ILPUT: 1. Glycoprotein: Leucine-rich reg	2 2	PPINTS; PPO	inta, templomper	±.		
SMART, SMOODI3, LERWE, 1. SMART: SMOODI3, LPP_TYP: 11. Glycoprotein: Leucine-rich registant.	3 2	SMART, SMUSS	(70, LEE, J.			
SMART: SM0359; LPP_TYP; 11. Glycoprotein; Leucine-rich re- SIGNAL	. <u>.</u> .	SMAPT SMOOD	1.3. LEFNT: 1.			
Glycoprotein; Leucine-rich resistant	2.	SMART: SMOO3	169; LPP_TYP; 11			
SIGNAL 1 27	×	Glycoprotein	i; Leucine-rich	repeat; P	epeat; Signal.	
	Ę	IVNULU	100	TMLO	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	

```
\stackrel{\cdot}{=}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99 LDLSHINSTERF PPGTI PTANVFALRI AGI G · · · · LQQT PPGLFSPLPNLHDLDVSDNQLER 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     156 VP+PVTRGLRGLFRLFRTAGNTFTAQLPPFPLAGLAALQELDVSNLSLQALDGDLSGLFPP 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97; Indels 40; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUN 1994 (Rel. 29, Created)
01 JUN-1994 (Rel. 29, Last sequence update)
01 MAR-2002 (Rel. 41, Last annotation update)
Insulin like growth factor binding protein complex acid labile chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         · TVFCTARQGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 LALALLILISWVAI OPPSI FGAFPGTPAFGPACPATCACSYDDEVNELSVFCSSPNLTP | 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          46 VPPDVPPDTVGLYVFENGITMLDASSFAGLPGLQLLDLSQNQIASLRLPRLLL-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryoja, Metazoa, Chordata, Graniuta, Vertebrata, Euteleostomi,
Mammalia; Eutheria; Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (FOTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL)
PROTEIN COMPLEX ACID LABILE CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 605;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 LLL.PLLLL.--LALG------PGVQG---- CPSGCQCSOPQ
                                                                                                                                                                                                                                                                                                                                                                                                                              LRR 13.
LRR 14.
LRR 14.
LRR 14.
LRR 16.
LRR 17.
LRR 19.
LRR 20.
LRR 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0021004625P236F2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10.3%; Score 322; DB 1;
36.2%; Pred. No. 1e-11;
tive 39; Mismatches s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-LINKED (GLCNAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INVERSHVTLA 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        244 LOKLYTUPNI TAAVAPGAFUGURALPWEDI SHNPVA 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
                                                                                                                                                                                                                                                                                                                             10.
                                                                                                                             LRR 4.
LRR 5.
                                                                                                                                                                                                                                                                 LKR LKR
                                                                                                                                                                                               I.KR
I PP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE Liver;
MFDIINE492457025; PubMed-1379671;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       66110 MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      215 LRLLAAARNPFNCVCFLSWFG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                580 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     precursor (ALS).
IGFALS OR ALS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID 9606;
                                                                                                                                                                                                                                                                                                 242
265
289
313
361
361
361
409
443
443
505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ALS_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARROHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPOHFNOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P35858;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEPEAT
KEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                   KEPEAT
KEPEAT
                                                           REPEAT
REPEAT
                                                                                                                             REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEPEAT
                               REPEAT
                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                               REPEAT
                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                 REPEAT
                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALS_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tttttg
3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AND DESCRIPTION OF STATES AND DESCRIPTION OF
```

```
This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation has been proposed Bioinformatics Institute. There are no restrictions on its use by non-prefit institutions as long as 1% centent is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb.site.ch/numengery/
                                                                                                                                                                                        Baxter R.C., Martin J.L., Benjac V.A., "High molecular weight insulin like growth factor binding protein complex. Purification and properties of the acid-labile subunit from
                                                                                                                                                                                                                                                     J. BIOJ. Chem. 264:11843-11848(1989).
J. BIOJ. Chem. 264:11843-11848(1989).
FUNCTION: INVOLVED IN PROTEIN PROTEIN INTERACTIONS THAT RESULT IN PROTEIN COMPLEXES, RECEPTOR-LIGAMD BINDING OR CELL ADDRESSION.
SUBCILLULAR INCOMPLEXES, COMPLEX OF AMOUT 140 TO 150 KDB WITH 1GF-I OR 1GF-II AND 1GF8F-3.
SUBCILLULAR INCOMPLEX EXTRACEBUBLAT.
ITISSUE SPECIFICITY, PLASMA.
Leong S.R., Baxter R.C., Camerato T., Dai J., Wood W.L.; S.Lucture and functional expression of the acid labile subunit of the institutive growth factor-binding protein complex."; Mol. Endowring 6.870-876(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INSULIN-LIKE GROWTH FACTOR BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROTEIN COMPLEX ACTO LABILE CHAIN.
                                                                                                                      Submitted (APR-2001) to the EMBL/SeuBank/10981 databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Glycoprotein, Leucine-rich repeat, Repeat; Signal.
SIGNAL 1 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            or send an email to licensedish-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    £.01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12.
14.
15.
17.
19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-89308584; PubMcd-2473065;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRR
LRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ERRERE
ERRERE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR001611; LRR.
InterPro; IPR000483; LRR_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro: IPR000372; LRR_Nterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; 1PR003592; LPR_out.
InterPro; 1PR003591; LRR_typ.
Pfam; PF00560; LRR; 19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRINTS; PRO0019; LEURICHRPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMART; SM00369; LRR_TYP; 11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AL031724; CAC36078.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; M86826; AAA46047.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam, PF01463; LRRCT; 1.
Pfam, PF01462; LRRNT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART; SMOODR2; LIRRCT; 1
SMART; SMOODI3; LIRRUT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PIR: A41915, A41915.
HSSP: P23945; IXUN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART; SM00370; LRR;
                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                           SPOUENCE OF 28 35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       313
313
313
409
458
458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               သ
                                                                                                                                                                                                                                                 human serum.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MIM; 601489;
                                                                                                        Frankland J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESTRAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHAIN
```

```
the Buropean Bioinformatics institute. There are no restrictions on its modified bioinformatics institute. There are no restrictions on its modified and this statement is not removed. There by and for commercial entities requires a liberary allocation of the property of send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a cullaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99 LOLSHWSTAALEPGILDTANVEALELAGIG · · LOQILPBGILFSFI,FNIHTALFVSFNEDER 155
                                                                                                                                                                                                                                                                                                                                                                    68 LPDGVPGGTQALWLDGNNLSSVPPAAFQNLSSLGFLNLQGGQIGSLH-PQALLGLENLCH 125
                                                                                                                                                                                                                                                                                                                                                                                                                                          127 LHLERNOLRSLALGTF--AHTFALASLGLSNNPFGPLEPGLFEGLGSLWDLNLGWNSLAV 184
                                                                                                                                                                                                                           40; Caps
                                                                                                                                                                                                                                                            PGVQG ... CPSGCQCSQPQ----IVECIARQ311 45
                                                                                                                                                                                                                                                                                           8 LALALILLSWVALGPPSLEGADPGTPGFARATPARTVGSYDDDADELSVFCSSKNLIR 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Maltoy B., Almeida A., Zho X X., Voqt N., Tyagi E., Muleris M., Dutrillaux A.-M., Dutrillaux B., Ross D., Hanash S.; "GACI, a new member of the leucine-rich repeat superfamily on chromosome band iq32.1, is omplified and overexpressed in malignant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               156 VP-PVIRGLRGLTHLFLAGNTFTAGLPPEDLAGLAALQELDVSNLSLQALPGALFPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukarysia, Metazsa, Shandata, Franiata, Vortekrata, Euteleustomi:
Mammalia: Eutheria: Primates, Catarrhini, Hominidae Hemo
                                                                     (GLENAC. . .) (FOTENTIAL)
(GLENAC. . .) (POTENTIAL).
(GLENAC. . .) (POTENTIAL).
                                      (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -i- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
--- TISSUF SPECIFICITY - OVERAMPI FFED IN MALICHANY GLIGWAS
--- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
--- SIMILARITY: GONTAINS I IMMINIARIZHEN CAPTYE LUMAIN.
--- SIMILARITY: CONTAINS II LEUCINE-PICH PEPEATS (LPR).
                                                                                                                                                                                                                                                                                                                                46 VPRDVPDPVGLYVPRNGTTMLDASSFAGLPGLQTLDLSQNQTASLSTFPLTT;
                                                                                                                                                                                  9.6%; Secre (02, DR 1; Length 605; 25.5%; Pred No. 1 to 10.
                                                                                                                                                                                                                       98; Indels
                                                                                                                            F6562A23CBE918F6 CRC64,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Glioma amplified on chromosome 1 protein precursor
               N-LINKED (GLCNAC
N-LINKED (GLCNAC
N-LINKED (GLCNAC
N-LINKED (GLCNAC,
N-LINKED (GLCNAC,
N-LINKED (GLCNAC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-OCT-2001 (Re) 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
01-MAR-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       215 LRILAAARNPFNCVCPLSWFG----PWVRESHVTLA 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            244 LOKLYLDRNI TAAVAPGAFEGEKALRWEDELSHNRVA 279
                                                                                                                                                                                                                       40; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=98324709; PubMed 9662332;
                                                                                                                                66034 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ongogene 16.2947- 47112 (1448)
                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD;
                                                                                                                                                                                                                                                          7 LLIPLILI LALG ....
               64
85
96
368
515
580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human).
                                                                                       515 5
580 5
605 AA;
                                                                                                                                                                                                  Local Similarity
es 98, Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUR-Glial tumor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxIP=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAC1_HUMAN
075325;
                                                                                       CARBOHYD
CARROHYD
                   CARBOHYD
                                    CARBOHYD
                                                                                                                                                                                    Query Match
                                                      CARBOHYD
                                                                         CARBOHYD
                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qliomas.
REPEAT
                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAC1_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAC1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FT
FT
FT
FT
SO
                                                                                                                                                                                                                                                                                         Db
                                                                                                                                                                                                                                                                                                                                                                                                         ó
                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \overset{\circ}{\circ}
```

EMBL; AF030435; AAC30702 1; -

```
GLIOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN.
FXTPACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----- 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (4.4) FYERMALARVERMED REVESTIFFED (INKNER) PROSPECT ANNUAL REFOLGENMEELVS LUK. 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        64. PPALPAGIOTETOSNSTVPVIOSELOVIANLELOLSQNSESDAPPOPPALPOLLSLH. 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----TUPTELPERTAINIPIAGEPERTAINAGEALQUETVENESTQALFÖDLSCLFPRIRE 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --- PDTVGLY 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 LVAPLELAWVAGATAAVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFLTAV
                                                                                                                                                                                                                                                                                                                                                                                N-LINKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
H-LIKKED (GLCNAC. .) (POTENTIAL).
N-LINKED (GLCNAC. .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.00; Score 283.5; DB 1; Longth 713;
22.60, Fred. No. 2c.69;
tv. 66, Mismatches 255; indels 283.
                                                                                                                                                                            Inmanoglobalin domain, fransmembrane, Clycoprotein; kepeat;
Leorine-rich repeat; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                          149040 45+500t700d60480d
                                                                                                                                                                                                                                        CYTOPLASMIC (FOTENTIAL)
                                                                                                                                                                                                                                                                                                                                                          IG-LIKE C2-TYPE DOMAIN.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LRR 1
                                                IPPO00372; LPP_Nterm.
                                    LRR_Cterm.
                                                           IFP003592; LPP_OUT.
IPR003591; LRR_typ.
                                                                                                                                                                                                                                                                                                                                                                                                                        TRYGR MW;
                                                                         Pfam: PF00047; 19; 1.
Ptam: PF00647; 19; 1.
Ptam: PF01463; LPF07; 1.
Pfam: PF01462; LERT; 1.
PFINE: PF09633; LEGRET; 1.
                                                                                                                           SMART; SMO0408; IGC2; 1. SMART; SMOU470; ILER; 6. SMART; SMO0692; ILER; 7. SMART; SMO003; ILERNT; 1. SMART; SMO0759; ILERNT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Liatity 22.6%,
Cinservative
                                                        InterPro; IPPO03592; LPP
                            IPPONIFIL; LPP
                                                                                                                                                                                                  38
       InterPro; IPR003006;
                                    IPR000483;
                                                                                                                                                                                                                                                          query Match
Fest Local Similarity
Matches 176, Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     47 PRDVP-
                            TriorPro;
                                      interPro;
                                                InterPro;
                                                                   Inter Pro;
                                                                                                                                                                                                         CHAIN
L+ MAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                             DOMAIN
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                            ZARBÜHYD
                                                                                                                                                                                                                                                                                                                                                                                                     PARBUHYD
                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                          F. N. S. S. S. S.
                                                                                                                                                                                                                                        DOMAIN
                                                                                                                                                                                                                                                           PEPEAT
PEPEAT
                                                                                                                                                                                                                                                                                         REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                     REPEAT
REPEAT
                                                                                                                                                                                                 SIGNAL
                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                             REPEAT
op
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ġ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       рp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \frac{1}{2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \hat{\mathbb{S}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŏ
```

```
.QGAT 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                   364 VGEHGNPIRCECVIPMAN--AIGHPVPFTEPUSTICAEPPDLUPLPVPFPPPPFFF---- 415
                                                                                                                                                                                                             -----AHAGRR----GRVYPEGTLELPRVTAHEAGLY1GVAGNLW3AD1KTVSVVVGR 516
                                                                                                                                                                                                                                                         ----PPPPSLTLGTEPVSPTSLRVGLQRYLQGSS 413
                                                                                                                                                                                                                                                                                                                                       414 VOLPSI BLIYFENI SOPPKPLVTLPI PASLAEYTVTQLPPNATYSV7VMPLGPGPVPFGEE 473
                                                                                                                                                                                                                                                                                                                                                                                  -----ALARLPRGTHSYNITRLI,QATEYWACL-----QV 599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             528 ----PAMAAAQEKGQVGEG----ATFLELEDVKVELEFGFKATFFGGELLEGSEPFVEL 580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Structure of the human blood platelet membrane glycoprotein Ib alpha
218 LAAAMNPENCVCPLSWEGPWVRESHVTLASPEETRCHEPPKNAGRLLLELDYADFGCPAT 277
                                                                                  278 TTTATVETTRPVVREPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTVGPVPQPQDCPPS 337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     660 GGRPPI PPAMAFWGWSAPSVPVVSAPI.VI.----PWNPGRK-----I PPSSEGETIL 705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-APR-1988 (Rel. 07, Created)
01-APR-1988 (Rel. 07, Last sequence update)
01-MAP-2002 (Perl 41, Last amontation update)
19-Patciet glycoprofein IR alpha chain precursor (GP-TR alpha) (GPIRA)
(GD428-alpha) (GD428) [Contains: Glycocalicin]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Titani K., Takio K., Handa M., Puggeri ? M.;
"Amino acid sequence of the von Willebrand factor-binding domain of
platelet membrane glycoprotein Ib.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chang D.W., Pajikawa M., Hages F.S., Papayannepestou T
                                                                                                                          417 -TDHCLPLISPRSFPPSLQVASGESMVLHCRALAEPEPELYWVTPAGLRETP-----
                                                                                                                                                                     338 TOUNGGIOHLGTPHHLAC-LOPEGF-----TGLY-CESQ------
                                                                                                                                                                                                                                                                                                                                                                                                                            474 ACGEAHTPPA --VHSNHAPVTQAPEGNLPLLIA-PALAAVLLAA-LAAVGAAYCVPPG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryola; Metazoa; Chordata; Craniata, Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Cloning of the alpha chain of homen platelet glysprotein Tb: a transmembrane protein with homelogy to leseine rich alpha 2: alycoprotein.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Futheria, Primates, Catarrhini, Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hess D., Schailer J., Rickli R.B., Clemetson K.J., "Identification of the disniphide bonds in human platelet glycocalicin.";
                                                                                                                                                                                                                                                                                               517 ALLQPGRDEGQGLELRVQETHFYHTLLSWVTFPNTVSTNLTWSSASSLEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wenger R.H., Kieffer N., Wicki A.N., Clemetson K.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Proc. Natl. Acad. Sci. U.S.A. 84:5615-5619(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       เว็กตุกมาก 15ค; สหน- เนรี (1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Proc. Natl. Acad. Ści. Ĥ S.A. 84:5610-5614(1987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              626 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A., AND PAPTIAL SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P.R.T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 Riochem 199-384-344(1941)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-91301149; PubMed=2070794;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=87289655; Purmed-33030),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed-2845978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-87289654, P.L.M.-J 3497399
                                                                                                                                                                                                                                                         ----MGQGTRPSPTPVTP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Riorhem Riophys Res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 17-315.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SHOUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MPDLINE 89025874.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCB1_Tax1D=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DISULFIDE BONDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
V L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GPBA_HUMAN
                                                                                                                                                                                                                                                       370 ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roth G.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P07359;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BALBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
GPBA_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GPDP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                          즢
                                                                                                                                                                                                             Ē
                                                                                                                                                                                                                                                                                             £
                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

```
MEDLINE=93253059; PubMed-8486780;
Murata M., Russell S.R., Ruggeri Z.M., Ware J.;
"Expression of the phenotypic abnormality of platelet type von
Willebrand disease in a terminant glyseptetein Ib alpha fragment.";
I Clin Invest 91 2133 2137(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             de la Salle C., Baas M.-J., Lanza F., Schwartz A., Hanau D., Chevaljer J., Gachet C., Briquel M.-E., Cazenave J.-P.; "A three-base deletion removing a leucine residue in a leucine-rich repeat of platchet glycoptotein Ib aigha associated with a variant of Bernard-Soulier syndrome (Nancy I).";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PARTICIPATES IN THE FORMATION OF PLATFIFT PLUGS BY HINDING TO VON WILLERRAND FACTOR, WHICH IS ALREADY BOOND TO THE SUBENDOTHELIUM. SUBBNIT: GP-1B ALPHA AND BETA ARE DISULFIDE. LINKED. GP-1X IS COMPLEXED WITH THE GP-1F HETPRODIMER VIA A MIN CYVALENT LINKAGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Point mutation in a leucine rich repeat of platelet glycoprotein Ib alpha resulting in the Bernard-Soulier syndrome."; I clin luwest 9: 1:11 :::00(1993)
                                                                                                                                                               "Genetic and structural characterization of an amino acid dimorphism
                                                                                                                                                                                                                                                                                                                                                            MEDLINE-92110577; PubMcd-1730088; Miller J.L., Lyle V.A., Cunningham D.; Miller J.L., Lyle V.A., Cunningham D.; Is a figure of the form of the figure of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Cys209 Ser mutation in the platelet membrane diveoprotein Ib alpha gene is associated with Bernard-Soulier syndrome.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRUCTION ARE INCATION. TYPE I MEMBERS PROLEIN.

PIN. SIRVEDALICIN, WHICH IS APPROXIMATELY COEXTENSIVE WITH THE EXTRACELLULAR PART OF THE MOLECULE, IS CLEAVED OFF BY CALPAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Simsek S., Noris P., Lozano M., Pico M., von Dem Borne A.E.G.K., Ribera A., Gallardo D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          glycoprotein Ib alpha gene associated with a hyperactive surface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rr. J. Haematol. 89:386-398(1995).
-!- FINCTION: GP-TR, A SURFACE MEMBRANE PROTEIN OF PLATELETS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Warn I, Pussoll S.P., Marchoso P., Murata M., Mazzunato M.,
de Marco L., Ruggeri Z.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-91271273; PubMed-2052556; Miller J.L., Couningham D., Lyle V.A., Finch C.N.; Mutation in the gene encoding the alpha chain of platelet glycoprorein ID in platelet type von Willebrand disease."; Proc. Natl. Acad. Sci. U.S.A. 88:4761-4765(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Pseudo-von Willebrand disease: a mutation in the platelet
                                                                                                                                                                                               in glycoprotein 1b alpha involved in platelet transfusion
                                                                                        Murata M., Furihata K., Ishida F., Russell S.R., Ware J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                J. Haematol. 88:839-844(1994).
                                                 MEDLINE-92255982; PubMed-1586750;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE-93388851; PubMed-7690774;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VARIANI ESS LEU-195 LEL.
MEDLINE-95178321; Pubmed=7873390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=95118882: Pubmed=7819107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE 93214031, PubMcd-8384898;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VARIANT PSEUDO-VWD VAL-249.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VAKIANT PSEUDO-VWD VAL-249.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VAPIANT PSEUPO-VWD VAI - 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DURING PLATELET LYSIS.
                                                                                                                                                                                                                               refractoriness.";
Blood 70-3086-3090(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rival 81 1787-1791 (1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Poth G.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VARIANT BSS VAL-172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VAPIANT BSS SER-225
                                                                                                                                                                                                                                                                                                                                   VARIANT BSS PHE-73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pussell S.D.,
                                                                                                                            Ruggeri Z.M.;
                            SIBA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ribera A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor
                            VARIANT
NO SOCO CO CO COLLA PANA RELETA PANA RENERA RESERVA DE LA PANA RESERVA DE LA LA PANA RENERA PANA RESERVA DE CO
```

Page

```
POLYMORPHISM: POSITION 161 IS ASSOCIATED WITH PLATELET-SPECIFIC ALLOANTIGEN SIBA, 3 HAS THE EST AND SHART, 9 HAS MET-151.
SHA IS TWOLVED IN MEGNATAL ALLOHMMINE THROMHOCYTOPENIA (NATE).
DISKASE: DEPENIX IN OPHRA ARD ONE OF THE CAUSIS OF BERNARD-SCULLER SYNDROME (BSS) RSS PATIENTS HAVE UNISHART! Y LAPOF PLATELETS AND HAVE A CLINICAL BLEEDING TENDERCY.
                                                                                                                                                                                                                                                         OF VWF FROM THE CIRCULATION. MISCELLANEOUS: PLATELET ACTIVATION APPARENTLY INVOLVES DISRUPTION
                                                                                                                                          DISPASE: DEPETTS IN SPIRA ARE ONE OF THE CAUSES OF VON WILLEBEAND
                                                                                                                                                                                        PSEUDO-VON WILLEBRAND DISEASE, THIS AUTOSOMAL DOMINANT BLEEDING
DISORDER IS CAUSED BY AN INCREASED APPINITY OF GP-1B FOR SOLUBLE
VWF RESULTING IN IMPAIPED HEMOSTATIC STRUCTON FUE TO THE REMOVAL
                                                                                                                                                               DISEASE (VWD) KNOWN AS PLATELET-TYPE VON WILLEBRAND DISEASE OR
    8888888888888888
```

- GLYCOPROPEIN IX (CP-IX) AND DISSOCIATION OF OF IB FROM THE ATTIN-BINDING PPOTEIN OF THE MACROMOLECULAR COMPLEX OF OP-IB WITH THE PLATELET
 - MISCELLANFOGS: BINDING SITES FOR VON WILLEBRAND FACTOR AND TRICKMENT (THE LATTER SITE WITH INNEW WE FURSTION) ARE IN THE AMINO-TERMINAL PART OF THE MILEGIDE FERTALS (LEE).

This SWISS-PROLEDLY is copyright. It is produced through a collaboration between the SWISS institute of Bioinformatics and the BMBL outstation—the European Bioinformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Sware by and for commercial cutillies requires a license attended (Swar http://www.isbrsib.oh/announce.) or send an early of Borner is an

```
InterPro; IPR001611; LEE.
InterPro; IPR000483; LRK_Cterm.
InterPro; IPR0004372; LEE_Hterm.
InterPro; IPR001592; IRR_out.
InterPro; IPR001561; IPP=*yF
                                                                                                                           SMARI; SMOU370; LECFICHETT
SMARI; SMOU370; LRR; 3.
                                                   EMBL: M22403; AAA52596.1;
                                                                                                                 Piam; PF01463; LRRCI; 1.
Piam; PF01462; LRRNI; 1.
                                            EMBL: J02940; AAA52595 1;
                                                              GlycoSuiteDB; P07359; -.
                                                                                                                                             SMART; SM00013; LRRNI;
                                                                                                             Ptam; PF00560; LRR; 6.
                                                                                                                                         SMODO82: I.PPCT:
                                                        A27075; NBHUIA.
                                                                    231200:
                                                                          177820;
                                                                                                                                         SMAPT
                                                                    ΣΣ
```

SMART: SM00369; LRR_TYP; 2.
Plate let; Transmembrane; diycoprotein; Hemostasis; Blood coaqulation;
Plate let; Transmembrane; Grant Coll adhesion; Discase mutation;
Polymorphism; you Willebrand disease; Bernard Soulier syndrome. PLATELET GLYCOPROTEIN IB ALPHA CHAIN. EXTRACELLULAR (POTENTIAL). POTENTIAL. CYTOPLASMIC (POTENTIAL). N-LINKED (GLCNAC, . .).
N-LINKED (GLCNAC, . .) GLYCOCALICIN THRZPRC RICH THR ZPRO-RICH THR/PRO-RICH THE/TRO 386 395 408 417 430 626 17 17 17 17 506 527 70 70 119 119 1188 188 188 188 DOMAIN TRANSMEM DISULFID DISULPID SIGNAL CHAIN CHAIN REPEAT REPEAT REPEAT REPEAT DOMAIN REPEAT REPEAT REPEAT PEPEAT REPEAT REPEAT REPEAT

CARBOHYD

DBSNP:6068) H1909. HSS). G5256. ALLOANTIGEN SIBA(+)). G5257. G5259. G5258. G5258. G5259. HSS). HSS). HSS). HSS).	SMALCECK
(1-LINKED) K	A V V V V V V V V V V V V V V V V V V V
308 72 161 172 195 225	### FOR THE PROPERTY OF THE PR
CARBOHYD VARIANI VARIANT VARIANT VARIANT VARIANT VARIANT VARIANT VARIANT VARIANT	2010 N

```
the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way mealified and this statement is not removed. Usage by and for communication entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   this SWISS PEQUENTRY is repyright. It is preduced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL outstation
                                                                                                                                                                                                                                                                                                    'Molecular cloning of the acid-labile subunit of the rat insulin-like
                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Mammalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Purification and characteritation of the acid labile submit of rat serum insulin-like growth factor binding protein complex."; Endocrinology 14:849-852(794).

-1- FURTION-MAY HAVE AN IMPORTANT POLE IN PEGULATING THE ACCESS OF CIRCULATING IGES TO THE TISSUES.

-1: SUBUNIT: FORMS A TERNARY COMPLEX OF ABOUT 140 TO 150 KDA WITH
Insulin-like growth factor binding protein complex acid labile chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION: Extracellular.
TISSUE SPECIFICITY: BRAIN, KIDNEY, LUNG, HEART, SPLEEN, MUSCLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INSULIN-LIKE GROWTH FACTOR BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROTEIN COMPLEX ACID LABILE CHAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           setween the Swiss Institute of Bioinformatics and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- SIMILAPITY, CONTAINS 21 DESCRIPTION REPEATS (LRP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Olycoprotein; Leucine-rich repeat; Repeat; Signal, SiGNAL
                                                                                                                                                                                                                                                                                                                         growth factor binding protein complex.";
Biochem. Biophys Res Commun 186:304-404(1942).
                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE OF 24-44, AND CHARACTERIZATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRR 2.
LRB 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-94130835; PubMed-7507839;
                                                                                                                                                                                                                                                    MEDLINE-93038676; PubMed-1384485;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR001611; LRK.
InterPro; IPR000483; LRK_Cterm.
InterPro; IPR00040372; LRK_Nerm.
InterPro; IPR005592; LRK_Out.
InterPro; IPR005591; LRK_typ.
Ptam; PP00550; LRK_19P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IGF-1 OR IGF-II AND IGPRP-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL: $46785; AAB23770.2; *.
PIR: JC1282; JC1282.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LEURICHRPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN-WISTAR; TISSUE=Serum;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART; SM00082; I.RRCT; 1
SMART; SM00013; I.RRNT; 1.
SMART; SM00369; I.RR_TYP; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam: PF01463; LRECT; 1.
Pfam: PF01462; LRENT; 1.
PPFNTS; PRU0019; LEUKICHR
                                                                          Mattus norvegicus (Bat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       73
96
120
144
168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SMART; SM00370; LRR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Baxter R.C., Dai J.
                                                                                                                                                                                                                                                                               Baxter R.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HSSP; P23945; 1XUN.
                                                                                                                                                                                                    SEQUENCE FROM N.A.
                       precursor (ALS).
IGFALS OR ALS.
                                                                                                                                                    NCBI_TaxID*10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    52
744
98
1121
1121
1146
1144
1144
1221
1221
1313
3313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AND LIVER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPERENTED AND SERVICE OF THE PROPERTY OF THE
```

```
Ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12.9 H. FRINDER REMINESTED BY SAFETY FOR THE FOR THE BOTH THE FOR THE BOTH TO BE SAFETY BY SAFET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          158 PVIRGLEGLTRLERLAGNTRIAĢLEPEDLAGLAALOBLIVSNI,SLQALIKBLISBLITRLEL, 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100\, LESHINSLEALERYTE, FOTANVPALPI ACH STOPPT PERFERMI PINT DVSFNIQI PDVP^+ 157\,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - - CPSGCQCSQPQ- - - - 1 VPC1 ARQG11 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-N.97-1997 (Rel. 35, Greated)
01-N.9V-1997 (Rel. 35, Last sequence update)
01-MAR-2002 (Rel. 41, Last annotation update)
Insulin-like growth factor binding protein complex acid labile chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 PALVVLLAFWVALGPCHLOGTDPGASADABGPOCPVACTCSHIDVTDFLSVFCSSKNLTH 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prec. Mail. Acad. Sci. 0.8.A. 93:10028-10033(1996).
-!- FUNCTION: MAY HAVE AN IMPORTANT ROLE IN PERGULATING THE ACCESS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE 96413591; Pubmed 8816745; Boiselair V.R., Seto D., Hasiel S., Hurst K.R., coi G.T.; Boiselair Y.R., Seto D., Haide S., Hurst K.R., coi G.T.; Prognization and ebremoval localization of the quie enceding the mouse acid labile subunit of the insulin-like growth factor binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46. VPRDVPPDTVNI YVPFNNTTMI DASSPAMI POLOTI DI SQNQTASLR · · · · · · · LDRULLI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CIRCULATING IGES TO THE LISSUES.

-!- SUBGNIT: FORMS A LENMARY COMPLEX OF AMOUT 140 TO 150 KDa WITH IGE-: OK ICH-I AND IGEN-3 (UF SIMILARITY).

-!- SUBCELLULAR LOCATION: EXTLACED DIAR.

-!- SIMILARITY: CONTAINS 21 LEUCINE-RICH REPEATS (LAR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciuroquathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                                                                     (POTENTIAL) . . . )                                                                                                                                                                                                                                                                                                                                          HILLINKED (GLUNAC, ...) (POTENTIAL).
N-LINKED (GLUNAC, ...) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 (10)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9.0%; Score 281.5; DB 1; Length 603;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DCD7637D94A5037C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    218 LAAARNPENCYCPLSWEG----PWVRESHVTLAS-PEFTRCHFP 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 247 LYLDRALD TAVAPGAST CMRALEMITS SHIPVACIMENT ---- EP 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. 2.2e-09;
.__Mismithes_106,
                                                                                                                                                                                                                                                                                                         N LINKED (GLENAC.
N LINKED (GLENAC.
14.
15.
17.
17.
19.
ERE
ERE
ERE
                                                                                                                                                                                       LRR
                                                                                                                                                                                                                                                                        I.RH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66811 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 PLLLPLLLL LALGP-GVQG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 12.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Canacimit inc
    384
44308
4456
4456
5529
566
864
368
368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IGFALS OR ALS OR ALBS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 603 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCB1_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     precursor (ALS).
    361
386
409
433
479
506
543
643
643
85
                                                                                                                                                                                                                                                                                                                                                                                                                       368
515
578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN-129/SV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ALS MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     complex.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAPHOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAPBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P70389;
                                                                         REPEAT
REPEAT
                                                                                                                                                                                       REPEAT
REPEAT
                                                                                                                                                          REPEAT
                                                                                                                                                                                                                                                                        REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ALS_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COCCONTRACTOR OCCONTRACTOR OCCO
    Statatatatatata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       :1
```

```
This SWISS-PROT centry is copyright. It is produced through a collaboration between the Swiss institute of Ricinformatics and the EWHS official the European Bloinformatics Institute. There are no restrictions on the Swiss by non-profit institutions of the institution of Swisse by and for commercial entities requires a license labeled the institution or send an email to license labeled.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99 LDLSHNSLJALEPGTL-19TANVEALRLAGLGLQQLDEGLFSRLRNJHDLDVSDNQ1 FRVP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127 LHLERNIJRSLAAGLFRHTPSLASISLGNNLLGRIJEGIJFRGLSHIJWIJNIGWNSLVVUP 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      68 LPDGTPVSTRALMLDGNNLSSTPSAAPQNLSSTDPTNLOGSWLPSLE PQALLGLQNLYH 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 PLLLPLLLL-LALGP-GVQG------CPSGQCQCSQPQ-----TVFCTARGGTT 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .) (POTENTIAL)
) (POTENTIAL)
.) (POTENTIAL)
.) (POTENTIAL).
.) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                46 VPRDVPPDTVSLYVFENGITMLDASSFAGLFGLÜLLDLSUNGIASLKLZKLIL.....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL).
(POTENTIAL).
(POLENTIAL).
                                                                                                                                                                                                                                                                 regest: Pepcat; Stanai.
BY SIMICANTY.
INSULIN-LIKE CHOWNE PACTOR BINDING
PROTFIN COMPLEX ACID LABLIE CHAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8.9%; Score 278.5; DB 1; Length 603;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fresh: 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4A6223APC7026BCC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-LINKED (GLUNA".
N-LINKED (GLUNAC...
N-LINKED (GLUNAC...
N-LINKED (GLUNAC...
N-LINKED (GLUNAC...
N-LINKED (GLUNAC...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. Mo. 3.2e 09,
y Missatches 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRR 20.
LRR 21.
N-IINKFD (
                                                                                                                                                                                                                                                                                                                                                                                                                  13.
                                                                                                                                                                                                                                                                                                                                                           TREE STEELS
                                                                                                MGD: MGI:107973; 19fals.
InterPro; 1PR001611; LRR.
InterPro; 1PR001613; LRR.Cterm.
InterPro; 1PR000352; LRR.Mtcrm.
InterPro; 1PR00552; LRR.out.
InterPro; 1PR07592; LRR.out.
InterPro; 1PR0759; LRR.out.
InterPro; 1PR0759; LRR.out.
InterPro; IRR.? 19R: 19
IRM.; PP01462; LRR.; 1.
RMINIS; PR00019; LEURICHRPI.
                                                                                                                                                                                                                                                                                                                                                                                                       호 호
호 호
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 K
R R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             α
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mw Maria
                                                                                        EMBL; U66900; AAB17270.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Boot Local Similarity 32.8%;
Matches 90; Conservative 4
                                                                                                                                                                                                                                                                  Leucine-rich
                                                                                                                                                                                                                  SMART; SM00370; LER: 4.
SMART; SM20082; 19F7T; 1.
SMART; SM00013; LRRNT; 1.
SMART; SM00369; LRP_TYP;
                                                                                                                                                                                                                                                                                                                                                                                           240
254
254
335
336
386
384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
144
168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FO. AA:
                                                                                                                                                                                                                                                                                         7.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUNG METS
                                                                                                                                                                                                                                                                             SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                         PLFEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                           PEPEAT
                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                          PEPFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
                                                                                                                                                                                                                                                                                         CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ÷
 FFFF58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŏ
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWISS lustifuate of Bioinformatics and the SWIS constants on the the Buropean Holoformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way medified and this statement is not rewried as the content is in no way entities requires a license where the profit is not profit of send and this statement (see http://www.ish.ch/announce/crised and acquires a license which sib.ch/announce/crised and enail to licensewish sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Drosophila melanoquster (Fruit 119).
Eulaidus Malais a. Arilisp da. Tri heata, Hesapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Hiptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
NGBL_Tax1D-7227;
                19" DIVINGESTALMING HELL HELL HELLEL HELL SHEEL HELLENGE 245
158 - PVIPCIPCI POI TRIBIACNTRIACI ROFOI AM AALQRI IVENI SIQAI POIG SOLFPRIR 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rothberg J.M., Jacobs J.R., Goodman C.S., Artavanis-Isakonas S.:
"Sili: an extracellular profess necessary for derelopment of midline
and commissinal axon pathways contains both JDF and DKK
domains.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMMISSIEAL AXON PATEMAYS. SLIT MAY INTERACT WITH EXTRACPITULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genes Dev. 4:2169-2187(1990).
- F. FUNCTION: NECESSARY FOR DIVITIONMENT OF MIDLINE GLIA AND
                                                                                                                                                                                                                             51 MAR 1992 (Ref. 21, Created)
91 MAR 1992 (Ref. 21, Last Sequence update)
91-MAR-2092 (Ref. 41, Last annotation update)
                                                                     I WVELLERVILA 246
                                                                                        246 KLYEDBRELTAVAPRANGSKALRWIGGSHNRVA 279
                                                                                                                                                                                               PRT; 14HQ AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Elybase, FBREGAGGAGS, 811.
Therpro: IPPRODGS; Ass. byth.vyl.
Interpro: IPROGGSS; Cys. Knot.
Interpro: IPROGGSS: EGF-11ke.
                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
MEDLINE=91099665; Pubmed-2176646;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR003591; LRK_typ.
InterPro; IPR001791; Laminin_G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterFro, IFR000742, ENT_2.
IndexFro: IFR0018H; ESF_CA.
InterPro: IPR0018H; ERF_CA.
InterPro: IPR000483; ERF_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR000372; LRK_Nterm.
InterPro; IPR003592; LRK_out.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PF00054; laminin_G; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Piam; PF00007; Cys_knot; 1.
Pfam; PF00008; EGF; 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBE, X53959, CAA37910.1;
                                                                   . 17 TELAMARINE BOVOTESMED
                                                                                                                                                                                               STANDARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PF01463; LRRCT; 4.
PF01462; LRRNT; 4.
                                                                                                                                                                                                                                                                                   Slit protein precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PF00560; LRR; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MATRIX MOLECULES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PIR; A36665; A36665.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HSSP; P00743; ICCF.
                                                                                                                                                                                           SLIT_DROME
P24014;
                                                                                                                                                                            SLIT_DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam;
```

Pfam;

```
musculus (Mouse).
                                                          1052
1068
1073
11115
11139
1357
1362
1409
                                                                                                                                                                                                                                                          1423
1453
1443
1344
1480
1480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GPV_MOUSE
008742;
                                                                                                                                                                    DISULFID
DISULFID
DISULFID
                                                                                                                                                                                                                                                        DISULPID
DISULFID
DISULPID
VAPSPITC
SPQUENCE
         DISULFID
                                                          DISULFID
                                                                                              DISULFID
                                                                                                                                 PISTUPID
                                                                                                                                                                                                                       DISULFID
                                              DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T.V_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GP5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              년
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AC DT DT DT COS
           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Çζ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ē
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EGF-LIKE 1.
EGF-LIKE 2
EGF-LIKE 3, CALCIUM-BINDING (POTENTIAL).
POP-LIKE 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EGF-LIKE 5, CALCTUM-BINDING (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (FOTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (POTENTIAL)
R SMART; SM00041; CT: 1.

R SMART; SM000179; EGP_CA; 2.

R SMART; SM00010; EGP_Like; 5.

R SMART; SM00030; LRF; 4.

R SMART; SM00030; LRR; 4.

R SMART; SM00039; LRRT; 4.

R SMART; SM000369; LRRT; 4.

R SMART; SM00018; LRNT; 4.

R PROSITE; PS00010; ASX_HYDHOXYL; 3.

R PROSITE; PS01025; CTCK_1; 1.

R PROSITE; PS01025; CTCK_2; 1.

R PROSITE; PS01025; CTCK_2; 1.

R PROSITE; PS01026; EGP_1; 7.

R PROSITE; PS01037; EGP_2; 5.

R PROSITE; PS01037; EGP_1; 7.

R PROSITE; PS01037; EGP_1; 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GLCNAC)
N-LINKED (GL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-1 INKED (GLONA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LAMININ G-LIKE.
                                                                                                                                                                                                                                                                                                                              SLIT PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FOF-LIPE 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FCF-LIKE 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LERR 11.
LERR 13.
LERR 14.
LERR 15.
LERR 16.
LERR 16.
LERR 17.
LERR 19.
LERR 20.
LER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CICK
                                                                                                                                                                                                                                                                                                              36
1480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1159
1175
1243
1292
922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 743
764
788
812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     836
861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1000
1100
1149
1325
1392
1480
1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    357
435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       783
788
958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 369
394
417
522
546
570
618
643
678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       783
788
958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
DOMAIN
DOMAIN
DOMAIN
DOMAIN
DOMAIN
CARPOHYI
CARPOHYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DISULFID
DISULFID
DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISGLETD
DISGLETD
DISGLETD
DISGLETD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SARROHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAPPOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'ARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                          SIGNAL
CHAIN
PEPEAT
                                                                                                                                                                                                                                                                                                                                                              REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                 PEPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REPEAT
REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PEPFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
```

```
14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160 ----TBGI PGLTPLPLAGNTFTAQI PPPDLAGLAALQBLDVS-------NL 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          312 TRAPSPPSTAPPTVGPVPQP------QINTPPSTOTINGVPHLGTRRIFF ACLUPPG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           578 IKPNOLTGIEPNAFFSASHIQELQIGENKIKEISNKMFLGIMQLKTINLYHMQISOVMPG 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            638 SPEHLNSLTSLNIASNPFNCNCHLAWFAECVRKKSLNGGAARCGAPSKVRIVOTKDLPHS 697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ::||:::|| |::|| |::|| |::|| |::|| |:::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |::::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |:::|| |::|| |::|| |:::|| |:::|| |:::|| |::|| |::|| |::|| |:::|| |::|| |::|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      200 SLQALPGDLSGLPPR-----LPLLAAAPNPPNCVCP1SWF0FWVPPSHVT1ASPPERT 251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    252 POBPPPKRACPLL LELDYADFGCPATTTTATVPTTPPVVPFPTALSSSLAPTWLSPPAPA 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indole 165; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     519 GPAMCHG-EGITVEGTGRELKELFELELHITELLLNENELGRISSINGLPGPUPHIVKIR 577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ---PPTVCLY 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.1%; Score 255.5; DB 1; Length 1480; 21.4%; Pred. No. 1.7e-07;
HY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --SDNQLERVP---PV----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F2; Mismatchos 168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
16-OCT-ZUUL (Rel. 40, Last annotation update)
Flatelet qlysoprotein V presursor (GPV) (CT42D).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24 ÇPSGÇÇÇŞQPQTVFÇTAPQGTTVPRDVP------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16.57=2 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches 105; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STANDARD;
               1021
10050
10050
10050
10089
11125
11125
11148
11368
11380
11443
1443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٧٧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361 FIGLYCESOM 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      977 YTGARCEINI 986
```

σ

```
This SWISS FECT catry is espright. It is produced through a collibriation between the Swiss Institute of Bioinformatics and the EMBL outstation—the Burnepan Hinformatics Institute. There are no restrictions on its use by non-profit institutions and its content is in no way modified and this statement is not removed. The sage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a literase agreement (See http://www.isbrsib.ch/anneanner
                                                                                                                                                                        Grunert P., Loew D., van Dorsselaer A., Cazenave J. P., Lanza F., "Gene cloning of rat and mouse platelet dlycoprotein V. identification of megakaryocyte specific promoters and demonstration of functional thromain chearage.", elsewage 18-100 89:253-3252(1997).
                                                                                                                                                                                                                                                                                                     FACTOR RECEPTOR AND MEDIATES VON WILLEBRAND FACTOR-DEPENDENT PLATELET ADHESION TO BLOOD VESSELS. THE ACHESION OF PLATELETS TO INJURED VASCULAR SURFACES IN THE ARTERIAL CIRCULATION IS A
Eukaryota, Metazoa, Chordata, Craniata, Vortebrata, Euleleostomi,
Mammalia; Eutheria, Kodenia, Sciuroquathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-LINKED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (FGIENIAL).
N-LINKED (GLCNAC. ..) (FGIENIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                      CRITICAL INITIATING EVENT IN HEMOSTASIS (BY SIMILARITY). SUBCELLULAR LOCATION: Type I membrane protein. SIMILARITY: GONTAINS 14 LEUCINE-PLOU PEPEATS (1949).
                                                                                                          STEAIN "STPE,", TISSTELLOFF,
MEDLINE-97275136; PubMed 9129030;
Pavanat C., Morales M., Azorsa D.O., Mooq S., Schuhler S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Platelet; Transmembrane; Glycoprotein; Blood coagulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXTRACELLELAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C48643AA73967A7D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PLATFILET GLYCOPROTEIN V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CYTOPLASMIC (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Soil adhasian, Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N LINKED (COUNTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or send an email to licensewish-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LPR 14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  α)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRE
LRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MGD; MGI:1096363; Gp5.
InterPro; 1PR001611; LKR.
InterPro; 1PR000483: LKR_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1PR000372; LRR_Nterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro: IPR003591; LRF_1yr.
Pfam: PR00560; LRR: 13.
Pfam: PF01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              63467 MW:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1PR003592; LRR_out.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in wither tich repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LEURICHEPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART; SM00369; LRR_TYP; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SMARI, 3M00370, LRR, 1.
SMARI, SM00082, LERCT, 1.
SMARI, SM00013; LERNI; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; PAGGGG; CAAG3441 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
385
109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        51
67
181
243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                312
385
567 AA;
                                                                                       SEQUENCE FROM N.A.
                                           NCBI_Tax1D-10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS: PROUG19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              338
338
362
386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARBUILLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               September
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RFPFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PEPLAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CHAIN
```

E E

```
This SWISS-FFoI entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   catatros requires a license agreement (See hitp://www.isb.sib.sdy.ann.ene.cial or send an email to licensewisb-sib.ch).
                                                                                                                                                                    5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cae european Bioliniormatics Institute. There are no restrictions on use by non-profit institutions as long as its content, is in no monified and this statement is not removed. Usage by and for commercial this rewarms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  221 TELERMILESVAPSAPIANISSI, USSULUSSI, PPALET 1905SVSP1TI FFNPUEE 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   281 LPDVLPGEMACH PELWLNGTHLSTLPAAAFRNLSGLQTLGLTRNPRESALPROVEQGLRE 340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44] - LEVESTRINAI AEL BELALPALPAL FONSI FHINELFAE EFTERNESSTESVŞEFINDEF 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                203 - AL PSELSGLIPPE PULAAABNPBNOODY SWEGPWOFESHOT! ASPPETBOHEPPFNACP - 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               401 TLPGDVEAALPOLTOVLIGHNPWLZDPGDIMKELQMERHHPDTTGREEPPGTRGFEPRASI. 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Raffus norvegicus (Raf).
Eskarjota, Matassa, Chardata, Prancita, Vertibrata, Putolostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                         191 KTLELTENK PPELPRALLDYKWILLDYFFF PHINALFPY PWI PYYLPNEYELGIJNONQILSF 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PITANVEALRIAGES - 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Payment C., Morales M., Azorsa D.O., Moog S., Schuhler S., Crimert P., Lore B., van Dorsselaer A., Garenare J.-P., Lanza F.: Crimert P., Lore D., van Dorsselaer A., Garenare J.-P., Lanza F.: Gerillication of rat analyses platelet appropriate of the following through mouse platelet appropriate and demonstration of functional through cleavage."; profile promoters and demonstration of functional through cleavage."; Purchick Research Section 11 Complex Profiles As INE VON WILLERAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PLATELET ADMESTON TO BLOOD VESSELS. THE ADMESTON OF PLATELETS TO INDIPPO VASCULAR SUPERCES IN THE APPERIAL CIRCULATION IS A CEPTICAL INITIATING EVENT IN HEMOSTASIS (RY SIMILARITY) SURCEFLUIAE FORTION. Type I membrane protein. SIMILARITY: CONTAINS 14 LEGGINE-RICH REPEATS (LRR).
                                                                                                                                                              126; Indels 148; Gaps
                                                                                                                                                                                                                                                                                       OF VALIDATION OF SOLVED POLYTINE STATES 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FACTOR RECEPTOR AND MEDIATES YON WILLEBRAND FACTOR-DEPENDENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ---RGLRGLTRLRIAGNTR-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 OCT DEST PROFILE TO SOME STANDARD POLICY CONTRACTOR OF THE PROFILE OF THE PROFI
                                            Length 567;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          263 ILLELPYANPOMPATITTATVPTTPPVVPFPTALSSIAPTWI 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             461 SPWELLQGDPWCPDPRSLPLDPPFENALEAP-----VPSWL 496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-JUL-1998 (Rvi. 36, Created)
15-JUL 1998 (Rvi. 36, Fast Sequence update)
15-JUL 1998 (Rvi. 44, Last annotation update)
Platelet glycoprotein V precursor (GPV) (CD42D).
                                            8.1%; Score 253; hb 1;
24.3%; Pred. No. 8.8e+08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       567 AA.
                                                                                                                                                              41; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91 L · · · · · REPRILEIDESHNSLEALEPGEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1A JUNE PETTAGE AND GETTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-WISTAR; 1158UE-Liver;
MFDLINE-97275136; DubMgd=9129030;
                                                                                                                                                                                                                                                                                             ALLEADARDAL DEVLOADED by
                                                                                                     24.38;
Query Match
Bost Local Similarity 24.3%;
Thos 98; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCB: taxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SPV_EAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ť
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPV_PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HERMAN AND COURT HERMAN AND AND COURT HERMAN AND COURT HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ά
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Î
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ĝ
```

:1 514 SP 515

```
7.8%; Score 244; DB 1; Length 567;
Local Similarity 25.7%; Pred. Ro. 2.9e-97;
Hes 93; Conservative 45; Mismatches 116; Indels 198; Gaps
                                                                                                                                                                                                                                                                                                                                                      (POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
(POTENTIAL).
                                                                                                                         Platelet, Transmembrane, Clycoprotein, Blood roarplation;
Repeat, Leucine-rich repeat; Cell adhesion; Signal.
                                                                                                                                                    PLATELET GLYCOPROTEIN V. EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                          CA10708E0D03707F CRC64;
                                                                                                                                                                                CNICLEASMIC (LOIDNITAL).
                                                                                                                                                                                                                                                                                                                         N-IINKED (GLONAC)
N-LINKED (GLONAC)
N-LINKED (GLONAC)
N-LINKED (GLONAC)
N-LINKED (GLONAC)
N-LINKED (GLONAC)
HINKED (GLONAC)
                                                                                                                                             POTENTIAL.
                                                                                                                                                                         POTENTIAL.
                                                                                                                                                                                                                      RR RR R
                                                                                                                                                                                                                                                                             X X X
                                                                                                                                                                                           LRR
       Interpro; 19R001611; LRR.
Interpro; 19R000483; LRR_Cterm.
Interpro; 19R000372; LRR_Nterm.
                                              InterPro; IPR003591; LRR_typ.
Pfam; PF00560; LRR; 14.
Pfam; PF01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                           63344 MW;
                                    InterPro; IPR003592; LPR_out.
EMBL; 269594; CAA93440.1; -.
                                                                            PRINTS; PROCO19; LEURICHRPT.
                                                                                   SMART; SMO0370; LRR; 2.
SMART; SMO0082; LRRCT; 1.
SMART; SMO0013; LRRNT; 1.
SMART; SMO0369; LRR_TYP; 10.
                                                                                                                                                                                                                                                                                                        385
409
51
181
243
                                                                                                                                                                                                                                                                                                                                                                                          567 AA;
                                                                                                                                                                                                                                                                                                        362
387
51
181
243
                                                                                                                                                                                                                                                                                                                                                      298
312
385
                                                                                                                                                                       TRANSMEM
DOMAIN
REPEAT
                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                            CAPROHYD
                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                            SECUENCE
                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                   CARBOHYD
                                                                                                                                                                                                                                                          REPEAT
REPEAT
                                                                                                                                                              DOMAIN
                                                                                                                                                                                                           REPEAT
REPEAT
                                                                                                                                                                                                                               REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                        REPEAT
REPEAT
                                                                                                                                             SIGNAL
                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                                                   REPEAT
                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                     CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
```

257 PRINSBLEEDSYADSOSTATITATVPTTETVVREFTAL---SESLAPIWESPTAFATE 313 15 GEGERT PARTERST OFFICE SPRINT THE POST LOAGEN LYSHIP INSLIGATION OF THE STATEMENT OF THE SPRINT THE POST LOAGEN THE POST OF THE STATEMENT O 99 -----LDLSHNSLLALEPGILDT-ANVEALRLAGLGLOGI.DEGLFSRLRNLHDLDVS 149 :| || :| |: || 3. 275 ENPLEELPEVLEGEMAGLPELWINGTHIPTLPAAAFRNISGI OFFIGETRNPFF SALPPGM 334 395 EBNQLKTLPCDVFAALLGLTRVLLGHNPWLCDCGLWPFLOWLRHFLELLGEDEPPGCNGP 454 455 ESEASLITEWELLIGGEGWEITSBEILFPHYFTERALKAFDFTGBFNFSGISWAWYLLVARG E 513 ··· LAALPEELSCLEPRIRILAAARNPEROVOPLSWEGFWVRESHVTLASFRETRTHEF 165 --OLTRER-LAGNTRIAQLRPED-LAGLAALQELDV------SNLS-----61 ENGITMEDASSFACEPCIQELEELSQNGI · · · · · · · · ASEREPREEL. 150 DNQLERVPPVI · · · · RGLE · · · · · · · · · · 314 AP 315 3 2 õ 9 Ś Ξ Š Š

õ

```
Takahaikhi N., Takahilli V., Puthnam P.W.; "Periodicity of leucine and tandem repetition of a 24 amino acid segment in the primary structure of leucine rich alpha 2 alycoprotein of human serum."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.8%; Score 243.5; DB 1; Length 312;
27.5%; Pred. Mc. 1.6e-07;
ive 36; Mismatches 94; Indels 105; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I PETT : FIX SHINST FALEDGE ----- LISTANVEA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FE VIESSALIMITOPPINA ESPECIALIVA PROPERTION AND PARTIES OF SECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 DKINGAVERENHGSSTSCOPP - - - - - - - - AETROYLPADIAMEAVEFFNICHLIANICLO 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 LINKED.
N-LINKED (GLUNAC. . .).
                                                                                                                                                                                                                  Homo sapiens (Human).
Pubaryeta, Metazoa, Chordata, Craniata, Vertebrata, Eureleostomi:
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- TISSUE SPECIFICITY: PLASMA.-!- SIMILARITY: CONTAINS 8 LEUCINE RIGH REPEATS (LRR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Proc. Natl. Acad. Sci. U.S.A. 82:1906-1910(1985)
-1- SUBCELLULAR LOCATION: Secreted.
                                                                                                   21-JUL-1986 (Rel. 01, Greated)
21-JUL-1986 (Rel. 01, Last. Sequence update)
16-CCT-2001 (Rel. 40, Last. annotation update)
Leucine-rich alpha-2-qlycoprotein (LRG).
                                                 112 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LRR 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LRE
                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-85166241; PubMed: 3856868;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR001611; LRK.
InterPro; IPR000483; LRK_Cterm.
InterPro; IPR001592; LRK_out.
InterPro; IPR001593; LRK_typ.
Piam: PF00560: LRR: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Repeat :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              34346 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTE: A01211; NRHMA2.
SWISS-2PPAGE; P02750; HUMAN.
Siena-2DPAGE; P02750; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PPINTS; PROBOTO | PURICHEPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SMART; SMO0370; LKR: 1.
SMART; SMO0082; LFRCT; 1.
SMART; SMO0369; LRK_TYP; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74 - 11 POLOTI DI SONOTASI P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                    STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam; PF01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dlycoprofein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              312 AA:
                                                                                                                                                                                                                                                                                                       NCBI_TaxID:9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ⊖
æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  89;
                                                 A2GL_HUMAN
P02750:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Secretary and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PICH PID
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                           SPQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DISHIFTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Suery Mateh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Plasma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REPEAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                       A2GL_HUMAN
RESULT
                                                                                                                                         ÷
```

```
Laber F., Morales M., do la Salle C., Caresave T.F., Clemetson K.J., Shimomura T., Phillips D.P.; Salle C., Caresave T.F., Clemetson K.J., Schimomura T., Phillips D.P.; Coloning and characterization of the gene encoding the human platelet glassfetcher. W. A member of the Leacing-rich glasse tetrin family Glassed daring thrombin induced glatelet activation, "; J. Biol., Chem. 268+20801-20807(1994)
115 NOLEVLEVSWIEGEKALGERIALSGNRERKEPPGLIANPTLLETGEGENGLETIEPPDLIE 174
                                                             -----TRIAQLPPEPLAGLAALQFLDVSN 198
                                                                                                   175 GPLOLEPHALEGNKLOVLGKPILI POPPITEVIET NSNKLAPVAAGAPGSLEGLEMLDLSN 234
                                                                                                                                                                               - NEWLY TANKS IN YEWING A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PACTOR RECEPTOR AND MEDIATES VON WILLEBRAND FACTOR-DEPENDENT PLATELET ADHESTON TO ELOOP USSELS. THE ADHESTON OF PLATELETS TO INJUREN VASCUTARE STORPEYS IN THE APPERTAL CIRCULATION IS A CPLITCAL INITIATING EVENT IN HEMOSTASIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biochem, Biophys Reg Commun, 170:153 LG[[490]] -1. FUNCTION: THE GPIE-V-1X COMPLEX FUNCTIONS AS THE VON WILLEBRAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDITAR-50321225: Fabrid asfaz84;
Perth of J. Chirch P.A., McMullon B.A., Williams S.A.,
"Raman platelet (1)yesprotein V: a suiface leucine-rich giyoopiotein
related to adhesion.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=93391348; PubMed-7690959; Piprkyy M. 7, Ragon F.S., Yagi M., Poth G.J.; Piprky M. 7, Ragon F.S., Yagi M., Poth G.J.; Piprkin of the polypettide and the related by receptor system of adhesive, leucine-rich
                                                                                                                                           FLISH FPFLYLLAAAFNYFN,VCPLSWFGPWYEES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryola, Metazoa; Choronta, Graniala, Vertekrata, Euterestomi;
Mammalia; Eutheria, Primates, Catarrhini, Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDITRE GENELAS, Frenced Lastrau.
Shimomura T., Fujimura K., Maehama S., Takomoto M., Oda K.,
Pujimoto T., Oyimo P., Suruki M., Teihira Tanaka K., Titasi K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Papid purification and characterization of human platolot glycoperain V. the amino acid sequence contains louging-rich refeatilies modules as in glycoprotein Ib."; Proceed 75:249-2456(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION: Type I membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nat | Acad Set . " S. A. 90.8327-8331 (1992)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Platelet glycoprotein V precursor (GPV) (CD42D).
GPS.
                                                                                                                                                                                                                                                                                                                                                                                             01-FEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel 31, Last Sequence update)
16-OCT-2001 (Rel 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                SKO AA
                                                                                                                                                                               235 BELASVPEGLWASLGGINWOMFLGFUSG.....
                                                                                                                                                                                                                                                                                                                                                                  PPT;
                                                                                                                                                                                                                       242 HVTLASPEETRCHPPFKNAGRLEL 265
                                                                                                                                                                                                                                                             283 KEFMESONFIPPAGPEAVROOTEL 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Platelet,
MEDLINE-94012616, Pubmod-9407998;
                                                                                                                                         199 [SLQALFG------
                                                                                                                                                                                                                                                                                                                                                              STANDAPD;
                                                             162 GIRCLERPIAGN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PARTIAL SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PARTIAL SECUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Platelet;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE-Platelet;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                glycoproteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kuramoto A.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ISSUE - Lung;
                                                                                                                                                                                                                                                                                                                                                              GPV_HUMAN
                                                                                                                                                                                                                                                                                                                                         GPV_HUMAN
                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                      qq
                                                           8
                                                                                                                                    0.7
                                                                                                                                                                                                                       õ
```

```
between the Swiss Institute of Hoinformatics and the EMN containnable Burgeau Reinformatics Institute of Foinformatics and the EMN constation use the European Reinformatics Institute. There are no restrictions on its use by marging in its limits as long as its contain is in no way medified and this statement is not removed. Usage by and for commercial ordering a limits as a normal subjection of the commercial or send an email to licensee(sb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) (POIENTIAL).
) (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .) (POTENTIAL).
                                                                                                                                                                                                                                                                                                Glycuprotein, Blood coaquiation;
-1- TISSUR SPECIFICITY: PLATELETS AND MEGAKARYOCYTES.
-1- PTM: THE N-TEPMINUS IS BLOCKED.
-1- SIMILARITY: CONTAINS 14 LEUCINE-RICH REPEATS (LRR).
                                                                                                                                                                                                                                                                                                                                  PLATELET GLYCOPROTEIN V.
EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E : I (IN REF. 2).
F : 3 (IN REF. 2).
P :> D (IN REF. 2).
HICHGAAFSAF7115 CKC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GID -> PGG (IN REF. 3).
L -> I (IN PEF. 2).
H -- H (IN PEF. 3).
L - X (IN PEF. 3).
F -- 3 (IN PEF. 2).
                                                                                                                                                                                                                                                                                                                                                                SYLOPEASMIC (FLIENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)

N-LINKED (GLCNAC...)
                                                                                                                                                                                                                                                                                                           Cell adhesion; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-LINKED (GLCNAC
                                                                                                                                                                                                                                                                                                                                                       POTENTIAL.
                                                                                                                                                                                                                                                                                                                        POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LEP 10.
LEF 11.
                                                                                                                                                                                                                                                                                                                                                                                                                             ġ.
                                                                                                                                                                                                                                                                                                                                                                            L.R.R. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                               LKK
                                                                                                                                                                                                                                                                                                                                                                                                                                         LER
                                                                                                                                                                                                                                                                                                                                                                                                                                                  44 I
                                                                                                                                                                                                                                                                                                                                                                                                                                                             LPR
                                                                                                                                                                                InterPro; IPR000483; LRR_Cterm.
InterPro; IPP000372; LPP_Nterm.
                                                                                                                                                                Interpro; IPR001611; LRR.
                                                                                                                                                                                                      Interpre: IPPO03592; IPP_out.
                                                                                                                                                                                                              Interpro, IPP003591; LPR_typ. Pfam; PF00560; LRR; 14. PF01463; LPRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COSCS MW.
                                                                                                                                                                                                                                                                                                   Popoat; Loudino-rich repeat; SIGNAL, 1
                                                                                                                           EMBL; L11238; AAA03069.1; -. EMBL; EL3091; CAA80637.1; -. HSSP; P16473; 1XUM.
                                                                                                                                                                                                                                            PKINTS; PRÖGÖ19; DEURICHRPT.
                                                                                                                                                                                                                                                                                      SMART; SM00369; LRR_TYP; 9.
Platelet, Transmembrane, 31
                                                                                                                                                                                                                                                        SMART, SM06370, GRK, 1.
SMART; SM00082; FRCT; 1.
SMART; SM00013: LERNT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          385
4 4 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SECTIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    298
3312
3385
499
103
130
203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           51
181
247
                                                                                                                                                            MIM; 173511;
                                                                                                                                                                                                                                                                                                                                                      TRANSMEM
LOMAIN
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAPBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CALBURY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAPPCHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAEPOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPLICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
REPEAT
REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                       FEFFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
RELEAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PEPEAT
PEPEAT
                                                                                                                                                                                                                                                                                                                                            POMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                               REPEAT
                                                                                                                                                                                                                                                                                                                                  CHAIN
```

14;

7.7%; Srore 240; 108 1; Length 560; 27.2%; Pred. No. 4.8e-07; vc 28, Mismatches 111; Indels 152; Gaps

27.28;

Matches 109, Conservative

gnery Match Best Local Similarity

COMPLETE ARSENCE OF THE EMEYME IS NOT CONSIDERED TO BE

```
PTM: O-GLYDGSYLATED IN THE SERZTHR-RIPH REGION (FOTENTIAL).
PTM: WHETHER OR NOT ANY CYS RESTROES PARTICIPATE IN INTRACHAIN
BONDS IS UNKNOWN. BUT THEY DO NOT FORM INTERCHAIN DISULFIDE BONDS
WITH THE 50 KDA CATALYTIC SUBUNIT.
                                                                                                                                                                                                                                                                                                                                                                               307 AAAFENLSKLRYLGVILSPRESALPEGAFFGLGELDVLALHSNGLTALFEGLLEGLGKLE 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        367 QVSLÆRNKLRALFRALFRALSSLESVQLDHNQLETLEGDVEGALFRITEVLLGHNSWRYD 426
57 TYVEFNGTTMIDASSEAGLESTELLEGNOT ---AST--PEPPLITINGSEAFLALF TEE
                               -------145 145
                                                                                                                                                                                                                                                                      247 IZLERNBLAPLPSALITEISBNELLELT PERPLAFIFSVI FORMOGLOPINI NATOTATER 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              229 CPLSWEGPWVRESHVTLASPEF-THCHFPPKNAGRLLIFIDYADFGCPATTTTATVPTTP 297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  427 CGLGPFLGWLKO HLGLVGGREPPRCAGPGAHAGLPLWALPGGDAFCPG-----PPGP 478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tan F., Weerasinghe D.K., Skidgel R.A., Tamei H., Kaul R.K., conclosed it., Scallling J.W., Erdoes B.G., "The deduced protein sequence of the human carboxypeptidase N high molecular wordth subunit rowests the presence of leaving fick taske
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Amino acid sequence of the N-terminus and selected tryptic peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of the active subunit of human plasma carboxypeptidase N: comparison with other carboxypeptidases.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBUNIT AT 47 DEGREES CELSIUS AND KEEPS IT IN CIRCULATION, UNDER SOME CIRCUMSTANCES IT MAY BE AN ALLOSTERIC MODIFIER OF THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tan P., Weerasingho D.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Biochem, Biophys. Res. Commun. 154:1323-1329(1988).
-!- FUNCTION: THE 83 kba SUBUNIT BINDS AND STABILIZES THE CAFALFIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBUNIT: TETRAMER OF TWO CATALYTIC CHAINS AND TWO GLYCOSYLATED
                                                                                                                                                               187 KOLLOAQAKI PPLITHSNELVSLESGILNSICALTELÕFHRNHIRSIAPGAFDRLESS
                                                                                                                                                                                                                                                                                                                                                                                                                                        · - - SNI.S - - - - - - - - LOALPCDI.SCLFPRI.RLI.AAARNPFNCV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Problema, Oranieta, Vertebrata, Euteleastoni;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-AUG-1991 (Rel. 19, Last Sequence update)
16-00T-2001 (Rel. 40, Last annotation update)
Carbovyppiliase N 83 Kba chaim (Carboxypeptidase N regulatory
                            Eukrigeta, Merawea Chesiata, Craniara, Vertebrata, Eutzek
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     288 PVVREPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTVGP 327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        479 P--PRPAADSSS-----EAPVHPALAPNSSEP 503
                                                                                                                                                                                                                  16.1 --- LRGLTRLRLAGNT --- RIAQLRPEDLAGLAALQELDV --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        536 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Skidget R.A., Rengert C.D., Schilling T.W.,
                                                                                                      111 PGTLDT-ANVEALRLAGIGLQQLDEGL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PPT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDILINE 90094386; PubMed 2378615;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PARTIAL SEQUENCE, MEDLINE 88309120; Pubmed 3408501;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-AUG-1991 (Rel. 19, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Biol. Chem. 265:13-19(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATALYTIC SUBUNIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           subunit) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INACTIVE CHAINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SECTIENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                     ---- L1, [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N'FI_TaxID 4606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01 - AUG - 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CBP8_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Erdoes E.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeats.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LISSUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CBP8_HIJMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3
                                                                                                                                                                                                                                                                      3
                                                                                                                                                                                                                                                                                                                            ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
```

```
between the Swiss Institute of Bioinformatics and the EMHL outstation the European Bioinformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Heave by and for commercial of first requires a library and to commercial or first requires a library and to commercial or send an email to licensed sprish (and hip 70 www. ish siblicipropured).
                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TPELLTERESHMELLAFFPETTPTANVPATPLAGTG---LOQUING 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 DTQLCQPPPDAFGGLPPLFVTGSSPLNLSTNLF - SNLTSLORLJTLNFNMLEALPFG 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         136 EFSRERNLHELDVSENQLERVP-PV (PCLRCLTRIARIAGNTR) AQLRPEDLAGIAALIQEL 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25 PSGCQCSQPQTVFCTARQGTTVPRDVPPFVGLYVFENGTIMLDASSFAGLPGLQLLDLS 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 PMGCDTF - VQEVETSDEFLATVP1 D1 PPY FKN 14 FVPT SPTT1 PTRAPISHDI TRVVFL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (PUTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PEGENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7.1%; Score 222.5; DB 1; Louath 546;
34.8%; Pred. No. 4.7e<sup>.</sup>06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 <del>4 5 1</del>
                                           SIMILARIIY. CONTAINS IS LEGGINE RICH REFEATS (LER).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEPARTMENT (GLCNAC) . .) (F. DS24011243C9B2A6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
N-LINKED (GLUNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  r
x
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   331 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CP. Misc. atolery
                                                                                                                                                                                                                                                                                                                                                                         SMAPT; SMOOOTS: LRRNT; 1.
SMAPT; SMOOOTS: LRRNT; 1.
SMAPT; SMOOOTS: LRR_TYP: 10.
Repeal; icucine-1:ch repeat; Stycoprotein.
REPEAT 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LRR 14.
SEK/THR-RICH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LKK
LKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CRR
RR
RR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \frac{\alpha}{\alpha}, \frac{\alpha}{\alpha}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                XX.
                                                                                                                                                                                                                                                                                                                         InterPro; IPR001611; LRR.
ExterPro; IPR006372; LRR_Nterm.
InterPro; IPR003591; LRR_typ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           195 DVSNLSLQALPCDLSCLFPRL 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   178 KLSNNALSGLP---QGVFGKL 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         58649 MW;
                                                                                                                                                                                                                                                               EMBL; J05158; AAA51921.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity (34.6%)
76, Gosentuation
Though
                    COMPATIBLE WITH LIFE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        74
98
122
146
170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     =
                                                                                                                                                                                                                                                                                    PIR; A34901; A34901.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         536 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          51
75
99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1196
1250
1268
1291
339
353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 85 ONOTASLE
                                                                                                                                                                                                                                                                                                      MIM; 603104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLIB_AGKBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        093233;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PLIB_AGKBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ID AC
SOUTH THE THE TENT THE TENT TO SERVICE SOUTH TO SERVICE SOUTH THE TENT THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
```

```
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics institute. There are no restrictions on its case by uncerpoint institutions as iong as its content is in no way modified and this statement is not temperate by and for commercial entities requires a linears agreement (See http://www.isb-sib.eh.ancounce.) or send an email to linearse@isb-sib.ch)
                                                                                                                                                                                                                                                             Okumura K., Ohbura N., Inoue S., Ikeda K., Hayashi K.,
"A novel phospholipase A2 includer with leading lieb legels from the
blood plasma of Agkistrodon bloodoffii sinitieus. Sequence homologies
with human leading righ alpha? glycoprofest:";
J. Biol. Chem. 273:19469-19475(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LRE 7.
LRR 7.
LRR 7.
LRR 8.
N-LTRED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
N-LINKED (GLCNAC. ..) (POTENTIAL).
N-SINKED (GLCNAC. ..) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHOSPHOLIPASE AZ INHIBITOR SUBUNIT B.
                                                                                                                                                                                           SEQUENCE FROM N.A., AND SEGGENCE OF 34-53, 59-87, 97-105, 165-173, 177-195, 304-219, 205-030, 305-313 AND 317-330.
TISSUE-LIVER:
                                                                                    biomhoffil sinitiens).
Eukaryeta, Metassa, Chardata; Chamiata, Wertekhata, Futelaekhani.
Lepidosauria, Squamata; Scheroglossa, Serpentes, Colubroidea;
                                                                                                                                                                                                                                                                                                                                                                                                                         Obkura N. Okthala H. Judus S., Ibada K., Hayashi K., "Purlification and characterization of three distinct types of phospholipase A2 inilibitors from the blood plasma of the chinese mamushi, Agkistrodon blomboffil siniticus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1- SUBUNIT: HOMOTRIMER.
1- MASS SPECTROMETRY - MW-43857.2; MW_EPR-81.9; METHGD-MALDI.
                                                                     Agkištrošio blomboffii siniticus (Chinese mamushi) (Gloydius
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -!- FUNCTION: INHIBITS THE ENZYMATIC ACTIVITY OF THE BASIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINTS, PROBATO LEBETCHPPT, SMART: SMOOTO LEPT. 1. PROBATO LEPT. 1. SMART: SMOOTO LEPT. 1. SMART: SMOOTO LEPT. 1. SMART: SMOOTOGE LEPT. 1. SMART: SMOOTOGE LEPT. 1. SIGNAL, FLASPOLIEST AT INDIFFE. STRUCK OFFI., Frg.-a'.
30-MAX-2000 (Rel 34, Created)
30-MAX-2000 (Rel. 39, Last sequence update)
01-MAR-2002 (Rel. 11, Last annotation update)
Phospholipase A2 inhibitor subunit R prevursor (PLI-R).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              . Par. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -1- SIMILARITY: CONTAINS 8 LEUCINE-PICH PEPEAUS (LPP).
                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE OF 24-53, CHARACTERIZATION, AND FUNCTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -> L (IN REF. 2)
GRZPRSDROEG94948
                                                                                                                                       Viperidae, Crotalinae, Agkistrodon.
NCBL_TaxID=31147;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRP 3.
LRR 4.
LPP 5
                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-97361946; PubMcd-9230137;
                                                                                                                                                                                                                                              MEDLINE=98344034; PuhMed=9677367;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPPCOA483; LPP_T+orr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AB007198; BAA31994.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          37641 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 325 527-531(1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPPO03591; LPP_typ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro, IPR003592; LPR_aut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PLA2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPPOOI611; LPP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF01463; LKRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00560; TRP: R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSPHOLIPASE A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Leucine-rich repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HSSP; P16473; 1XUM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          331 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               127
150
175
199
                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Plasma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  interPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAPPOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAEBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RFPFAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SICNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHAIN
   R R R R
```

```
this SWISS-1991 entry is eapyright it is predered through a colliberation between the Swiss Institute of Bioinformatics and the EMBL outstation. The buropean Bioinformatics institute. There are no restrictions on its use by non-profit institutions as large as its manneaut is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                   14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nl-M-V-16-7 (Per. 45, Last sequence update)
30-MAY-2000 (Per. 49, Last annotation update)
Chondroadherin precursor (Cartilage Leucine fich protein) (38 kDa bone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     177 IAQLRPENIAG-----IAALQELDVS-----NLSLQALPGDLSGLFP 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DESC+++ 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           214 FLELLAAAPUPEMCVCFLSWEPDPWVPFSHVTLASPEPTBOHFFPKRAGPFFFFFFFFFF 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  279 · · · · · · · · · · · · · · · · III'WACDCRIDNILIFWVNEHNIHITYSKREIVCASFKHFKGECATSLHKS$1 | 228
                                                                                                                                                                                                                                                                                                                                                    42 HEPFTGEPARAPMISVEFTQVSSLOVBALGETHER DE SEHEKTLESGLERNUBQLH 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                           10° TIFLSTNHHEDIFFEIFTNASSLIILFISENQLABISFSWFYTLOHLFILSLUHNPVKEL 166
                                                                               Saps
                                                                                                                                                          T NOSEVILLETEL CLANDSCOVING SOMEONING OF TARGET IVERSIVET - REVIL 57
                                                                                                                                                                                                                                 1 MKSSVPSLLIAGLVMSLNSYTG------OVLYCPP---TPAPENVTEFVCNSPSL 46
                                                                                                                                                                                                                                                                                                            ----TEMILDASSFAĞLPGLQILIN,SÖNÇIASL-----RLPRLL 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bos taurus (Bovine).
Eukaryota, Metasoa, Chordata, Craniata, Vertebrata, Esteleostomi;
Mammalia, Eucheria, Cetartiodaetyla; Esmiaastia, Pepera, Poppidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neame P.J., Sommarin Y., Beynton R.E., Heinegaard D.; "The structure of a 36 Km leading with protein (chandredherin) isolated from boyine cartilage.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hu B., Coulson L., Moyer B., Price P.A.; "Isolation and molecular cloning of a nevel bone phesphoprotein related in sequence to the cystatin family of thiol protease inhibitors.";
                                                                                   113
       DB 1, Length 331;
                                                                                   :12, Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                227 VESTRASSELATROSPEQUEDEGESTARSELAMSER VYRUSANESE.
6.98; Scort 215.5; DB 1,
26.5%; Prod No 7.1e-06;
tive 34; Mishatches il3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  161 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Biol. Chem. 269.21547 21554(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-95113864; PubMed=7814406;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE 94342341, FubMed 8063792,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    J. Biol. Chem. 270:431-436(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C27972;
Ul-NOV-1997 (Rel. 35, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 25-55 AND 77-97.
                                                                               56, Conseivative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bovidae; Bovinae; Bos.
NCBL_TaxID=9913;
Query Match
Bost local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FISSUE Cartilage;
                                                                                                                                                                                                                                                                                                            58 YVFFNC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Bone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    329 CP 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             274 CP 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CHAD_MOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein).
                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14
CHAD_BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COCCOCREMENT OF THE FRANCE OF COORDER OF THE COCCOCREMENT OF THE C
                                                                                                                                                                                                                                                                                                                                                                                Ē.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ===
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ::
                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in
Cr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33
```

```
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 68 LATNSFRAMPNI VSIJHIQHQQI PEVAAGAFPGLKQI IYLYLYI SHNDI RVLRAGAFDDI,TEL 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             128 TYLYLDHNKVTELPRGLESPLVNEFILDDLNNNKIPELRSGAFQGAKDLRWLYLSENSLSS 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    104 TEPOTITOTANVEALPLAST SIZGSLD---BSTESPLENTHFLFVSFNGLEPVPP-VIPOTE 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  165 OLEPEPLAGNITH IAST PPEPLASI AALOPUDVSNESLOALPGOLSGUPPPLPLIAAAARSP 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       246 RYDETLAIDUTULEKFSDGAFLGVTTLKHVHLENNPLHQLPSNPF--FDSLETLTTNNP 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15deta (2011 - 20det)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 IJ IPIJIJIJA GROVENIPSKI POLICOV SOPOTVENTAREJITIV PROGOVOROV (VPO 16)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 LXLSLGLLASTLPALAACPQNCHCHSDLQHV1CDKVGLQK1PKVSEKTKLLNLQRNNFPV 67
                                                                                                                                                                                                                                                                                                                                                                                                         CP 23 (IN SOME ISOPOFM(S))
CHONDROADHERIN, MINOS FORM
10 X 24 AA LEUCINE-RICH TANDEM REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            553 BOOAUHSHAMSILAAMSILAAMSILAAMSILAANA SI BAASA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOA WKOTOOJ BOTERBALEAKTSEPDATOASPAKEROJHTROTOAFRAOKEPIKESKKAAGE KÕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6.8%; Score 213.5; DB 1; Length 361;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 ***** * PPTVGFYVFBNGF!MLOASSFAGFFGLGLGLSLNGTASLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            : -> R (IN REF. 2).
DA/9D298AD3DD1F8 CRC54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 6.8%; Score 213.5; DB 1;
Best Local Similarity 25.8%; Fred. No. 1e 05;
Matches 92; Concernative 3c, Missatches 1co,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7.
F.F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         382 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NI) 1 <-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR001611; LRR.
InterPro; IPR000483; LRR_Cterm.
                                                                                                                                                             InterPro; IPR060372; LRR_Ntérm.
InterPro; IPR063591; LRR_Lyp.
Pfam; PF00560; LPP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIP HUMAN STANDARD; F P51888; 01-0CT-1996 (Rel. 34, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 URR4 MW:
                                                                                EMBL; U08018; AAA21330.1; -.
                                                                                                                                                                                                                                                                     Pfam; PP01462; LRRNT; 1.
SMART; SM00082; LPPCT; 1
SMART; SM00013; LRRNT; 1.
SMART; SM00349; LRR_TYP;
                                                                                                                                                                                                                                              Pfam; PF01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hol AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                     25
25
27
79
103
1127
1175
1199
2223
2272
2272
2244
306
                                                                                                                                                                                                                                                                                                                                                                                     Repeat; Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DISULPID
DISULPID
CONFLICI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                   CHAIN
CHAIN
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRLP_HUMAN
(D PRLP_HU
AC P51888;
DT 01-OCT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REPEAT
PEPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₹EPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                              SIGNAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>2</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ŝ
```

```
this SWISS-PROT cutty is repyright it is produced through a collaboration between the SWISS Institute of Bioinformatics and the EMBL outstation she Funcional Recommender in the Re
                                                                                                                                                                                                                                                                       SEQUENCE PROM N.A. MEDLINE-97127584; PubMed-8954791; Grover J., Chen X.-N., Korenberg J.R., Pecklies A D., Roughley P.J.; Grover J., Chen X.-In., Korenberg J.R., Pecklies A D., Roughley P.J.; "The gene corganization, chromosome location, and expression of a SF-Kna matrix protein (PPELP) of human articular cartilage "; Genomics 38:109-117(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       soc. Extract Undar Estrict Prefevelycan:
Signal, Polymorphism.
POTENTIAL.
fil off 1996 (Re) - 34, Last sequence update)
01-MAR-2002 (Pel. 41, Last annotation update)
Prolargin precursor (Proline-arginine rich end leucine rich repeat
                                                                                                             Eukaryola; Medazoa; Chordata; Craniata; Vertebrata; Butchostomi;
Mammalia, Eutheria, Primates, Catarrhini; Hominidae; Homo.
NCPL_PaxID=9406;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LRR 10.
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-INKED (GLCNAC. . . ) (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -!- TISSUE SPECIFICITY: CONNECTIVE TISSUE.
-!- SIMILARITY: BELONGS TO THE SMALL INFERSTITIAL PROTEOGLYCANS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 208.5; DB 1; Length 382; Pred. No. 2.1e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -:- SIMILARITY: CONTAINS 10 LEUCINE-RICH REPEATS (LRR).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /FTId-VAR_011976.
A1C4E166B7515695 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EN SIMILARITY
N -> H (IN DBSNP:9439).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-LINKED (GLCNAC.
                                                                                                                                                                                                                            SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
MEDILINE: GAD 24653; PUPMAG-7592739;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROLARGIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LRR 6.
LRR 7.
LRR 8.
LPP 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    interPro; IPP003591; LPP_TYP.
Ffam; PF00560; LRFF 10.
Ffam; PF014C2 (IRRT; 1.
SMART; SM00013; LRFNT; 1.
SMART; SM00013; LRFNT; 1.
SMART; SM0009; LRFNT; 1.
SMART; SM0009; LRFNT; 1.
SPEEQL, Leucine-rich repeat; Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                I,RR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ЕМВЦ; ИZЧОМЧ; ААСТВ782.1; -.
ЕМВЦ; U41344; AAC18782.1; -.
ЕМВЦ; U41343; AAC18782.1; JOINED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LFF_N*Orm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         43809 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MTM, 601914; -. InterPro; IPR001611; LRR. InterPro; IPR001611; LRR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       382 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     126
149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FAMILY.
                                                                       protein).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Repeat,
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UVPROHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PEPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CHAIN
```

Matc	Matches		<u></u>	ēsuo	78; Çonservative		Σ	39; Mismatches	166	Indels	s is	79; Caps	Gaps	12;	
Qy	4	4 RVPL LLPLLLLLAL	17 -	PLLL	LLAL			949	1 1 1	1		1	- 20		
ηO	2	PSPI,0	MIT	PLLT.	ı I.ASVA <u>O</u> G	QPTPP!	PPPG	RITT (111) 1 RSPIGWILDILLIASVAQGQPTRPPPPGGGABPPPPPPPPPPFFPQPDEPAEPTDLPPP 61	SALdade	FPQPI	PEPAEF	TOLPF	ъ 61		
Qy	21			JUĞA	ระบับบรล	Ŭd ĕ	i.VFC	VQAFPSGAGASQPQTVPGTAPQGTTVPPDPDPTVSLYVEENSITMLDAS 70	THEFT	.XISA	VFENGI	TMLDA	oz 51		
DE	62	LPPGP	P.S.	- Udda	I PPRGY€P:	- PDFPSi	:: ALYC	62 LPPGPPSTEPDGPRFGYGPFFPSALYGDSPNLKKVP-VIPPRIHYLYLQNNF175LPVE 120	 VIPPRI		CNNE	- FELPV	급 된	0	
Qy	71	SFAGLE	PGL	orra	I.SQNQTA:	18	<u> </u>	71 SFAGLPGLOLLDI. SQNQTASLPLIPRITI LDI.SHNSLLALEPGTLDTANVEALPL 124	SHNSLLA	LEPG.	ILDTAN	IVEALP	12	4	
qq	121	SFONAS	TCL	PWIN	LONNEIP	KIDÇEY	VI P.K	SPQNATCLPWINLEDNREIPRIDGEVFPRYMERHOLEEV FEAL-PRILEGLEL 178	I I SKNOLEE	_ Z⊆_ - ^	AL-PRI	: ILEQLE	L 17	8	
Qy	125	AGLGLG	100	PPGL	FSR1,RNI	HPL.PV8	ON ds	125 AGLGLQQLDRGLESRLRNI HDLDVSDNQLERVPPVI FGLFGLTRLRLAGNTRIAGLR 181	TPGLPG	LTRL	RLAGNI	PIAGE	E 1.8		
QQ	179	SUHNUS	SP.	ррсзу	FSKLFNL	LLLPL(ÇHNP	179 SQNHISRIPPGVESKIRNLLLLDLQHNPI,SDGVFKPDTFHGLKNLMQLNLAHNILRKM	TEHGLKN	LMOL!	- II. NI.AHN-	-ILRK	M 236	9	
ä	182	PEDLA(CLA	ALQE	EDLACLAALQELDVSNLSLQAT F3FLSCLPPF	LOAT F	31415	182 PEDLACLAALOBLDVSALELQAT PUBLISCLEPRIETL		V	AAARNFEN 226	322 N			
•	707	FFRVF		ATHO.	LYLDSNA	ELLP	NGYF	23/ PEKVEIAIMQLILDSNKIETIPNGIEKSEPNLAFIKLNYNKLTDRGLPKNSFN 289	KLNY NKL	TDEG	PKNS	787 N	_		

Search completed: September 17, 2002, 09.54.43 Job time: 234 sec



Centere version 4.5 Copyright (c) 1993 - 2000 Fompuges Ltd

Of Defector prefetorsearch, using swimsbot

September 17, 2002, 39 185-4, September 17, 2004, September 4, Dr. Schaus (without alignments) 3025.767 Million cell apdates/sec kun on.

PEMCPPGPGLQSPLHAKPYT 598 1 MCSPVPILL PILLILLALGPG. 115-09-944-396-69 3135 Title: Perfect score: Sednence.

BLOSUM62 Gapop 10 0 , Sapext 6 S Secring table:

262222 ctal number of lits satisfying chosen parameters. Section segs, 172444999 residues

Searched.

Minimum DB seq length: 0 Maximum DE scq length: 200000000

Maximum Match 100% Listing first 45 summaries Post-promessing: Minimum Match 0%

SPTREMBL_19:* Database :

sp_archea:*
sp_bacteria:*
sp_fungi:*
sp_fungi:*
sp_nman:*
sp_nammal:*
sp_mammal:*
sp_organelle:*
sp_plan:* sp_unclassified * sp_vertebrate:* sp_rvirus:* sp_bacteriap:* sp_archeap:* St. Indent. sp_:irus:*

Pred. No. is the number of results predicted by charge to have a score greater than or equal to the score of the result being printed, and is derived by smallysis of the total score distribution.

SUMMARIES

Description	gaerzi homo sapten	uludand and Stocky		UStads home sapten	homod	DOMO	homo	ņошo.	ношо :	homo	homo	homod	homod	homon	canis	gydbył mus musculu
3 ID	1 2950X1	500000 C	1 Q9HBW1	1 QSUABS	\$ 075139	t gektive	1 <u>0</u> 90653	1 042155	\$ 09UPT7	1 OKNEDI	Federal Park	0-6N2N0 t	1 Q96KB1	1 D4KK 44	0 018156	1] <u>0.908</u> 44
% Ouery Match Length DB	602	6.73	653 4	5.70	811 4	X Y	161	, (i,y	792	h74 1	744	649	649	623	123	7 2 X
% Query Match	ت 98	. e.	10.5	5.51	10.3	10.7	10.2	10 S	10 Ü	3 3	or or	α σ	9.8	9 R	<u>۔</u>	ψ. 4
Score	2697 5	1184	330	323	322.5	321	321	320	315	310 5	30.5	308	308	307.5	299 5	293.5
Result No.	П	C4	m	-7	10	φ	7	88	σ.	10	11	12	13	14	15	16

Q9hg32 home sapien official rathus nerv Q9hdc7 home sapien	Q9de37 brachydanio Q90c45 gallus gall Q9db:7 mus musculu	09jilO mus museulu ak.75 riita n ng 06wvb5 mus museulu	Ofwajf ratius norr O7509 homo sapien	297719 diosophila 291xil aus musculu 29xyv4 drosophila	29bar6 homo sapien Q9n0o3 macuca fasc	gade to prachydatio 635930 mys myseyly 71341 homo sapjen	096224 homo sapien C88224 homo sapien C88200 rittas mirri	homo 1 yall	09wwb4 mus musculu 020204 raeserhabdi	09v7f8 drosophila 29gyd9 rattis borv 09gzu3 mus musculu
4 Q9HCJ2 11 Q7Q211 4 Q9HDC7	13 Q9DE37 13 Q90Z45 31 Q90K17		11	11 291XX 5 261XXX	4 Q9rere 6 Q9roe3	14 - 296858 11 - 635930 4 - 31484	4 Q96Q24 11 .88280	4 075094 1 075094 1 Quanka	-1	5 Q9V7F8 11 Q9QYD9 11 Q9QZU3
640 603 63	1515 738 633	687	1534	345	473	1517 734 4 :0	347	1523	1523	1480 426 567
ଲାଟ୍ର ଅଟେଟ	တက် တက်အ) an an a			xiocix rinid		о œ х й сі —	 თ თ.	200 -000
292.5 283.5	880 80 10 10 10 10 10 10 10 10 10 10 10 10 10	278.5 278 278	27.5		271	265 265	261.5	14 C A A A A A A A A A A A A A A A A A A	254 253. F	253.5 252 252
19		23	22.0	525	31 32	\$125.5	36.	0 M 4 0 Q 11	41	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

ALIGNMENTS

```
KEDLINE-2108566; FubMed 1121785;

KRAWI J. Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arawa T., Bira A. Pukunishi Y., Kiposawa H., Konde S., Yamanaka I.,
RA Alzawa K., Izawa M., Nishi K., Kiposawa H., Konde S., Yamanaka I.,
RA Alzawa K., Izawa M., Nishi K., Kiposawa H., Kasikawa T., Saito R.,
RA Kadota K., Matsuli Y., Goloberi T., Bono H., Rasikawa T., Saito R.,
RA Kuchi P. Lewis S. Matsur Y. Nikaido I., Pesnie G., Quarkenbush J.,
RA Kuchi P. Lewis S. Matsur Y. Nikaido I., Pesnie G., Quarkenbush J.,
RA Schriml L.M., Staubli F., Suruki R. P., Temilo M. Parshi T.,
RA Sakai K., Okido T., Furuno M., Anno H., Baldarelli R., Rashic T.,
RA Hake J., Boffelli D., Bojunga N., Carninci P., de Benaldo M. F.,
RA Hake J., Boffelli D., Bojunga N., Carninci P., de Benaldo M.,
RA Hownstein M.J., Hell C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Ardone R., Ring B., Rilawald M., Rodiguez I., Sakahucu N.,
RA Sasaki H., Sato K., Schoenbach C., Suya T., Shibata Y., Storch K.-F.,
RA Wishaw Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VRESHVTLASFEETFCHFFFFNAGPLILELFYADEGCPATTITAIVP11RPVVKEF1ALS 297
                                                                                                                                                                                                                                                                                  248 SSTAPTWISPPAPARPAPSPPSTAPPTVCPVPQFQFGFGFFSTUNGTOHEREPHIACLA 357
                                                                                                                                                                                                                                                                                                                         358 PEGETGLYCESQMGQGTPPSPTPVTPPPPSLTLGTEPVSPTSLPVGLQPYLQGSSVQLP 417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.18 STRETYPRISGPFKELVTEEPASLAEYTVTGLPFNALYSV-VMHEGDPVPDFSHERAGGE 477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 VRESHVILASPEETPOHEPPRNAGPILLETIVALFOOPATITIALVIOHTREVVRENMALS AUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        478 AHTIPPAVHSNIHAFVTQAREGNI-PIJJAPALAAVIJJAALAANGAAYTVPRGPAMAAAAGEK 537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     538 GOVOPGAGPI ELFOVKVPLEPGPRATPGGGRALPSGSEGEVPLMGFPGFGLQSFLHAKFY 597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryotu: Metappa; Chordata, Oraniata, Vertebrata, Euteleastami,
Mammalia; Eutheria, Rodontia, Sciulogiathi, Muridue, Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'Functional annotation of a full-length mouse cDNA collection.";
                                                                                                                                                                01-00N-2001 (TrEMBLEEL 17, Created)
01-JUN-2001 (TrEMBLEEL 17, Last sequence update)
01-JUN-2001 (TrEMBLEEL 17, Last afroctation update)
26-105-28605FIK PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2610528G05Rik.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; AK012169; BAB28075.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MGD: MGI:1921457; 2610528G05R;
InterPro; IPR000561; BGF-11ke.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nature 409:685-690(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HSSP; P00740; 1EDM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBL_TaxID-10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hayashizaki Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 598 I 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601 1 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q9CZ15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09CZT5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COGCTS
TD COCCTS
TD COCTS
TD COCCTS

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                          Š
                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                          12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ςò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ś
```

```
PEPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTV3PVPQPQL**PPST3*LN$3T7HLGTR 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      127 LFREYLSKNETPHTQPGAFFALDPLLELKLPDNELPYLPPLHLPPLLLLLIDLSHNSTPALE 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     111 PGTLDTANVEALFLAGIGILIPEGLESPIENI HOLDVSDNQLEPVPPVTEGLEGLTRLP 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  171 HAGNIFIAGEFFFFFAANGE HVSNI,SLØALFGFLSCLFPFLFLIAAAFNPFNCOOP 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             231 LSWFGFWVRESHUTLASPEFTRCHFPPKNAGFLLIFLDYADFGCFATTTTATVFTTRFVV 290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           35] HHI ACLOPEGPTGI YOPSQMGQGPPDSPTPVTPPPPPPRSLTIGIEPVSPTSLRVGLQRVLQ 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   411 GSSVQLPSI PLTYPNISGPDKPI VTLPLPASLAEYTVTQLPPNATYSVCVMPLGPGFVPE 470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                471 GEEACGEAHTPPAVHSNHAPVTQAPEGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAM 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                531 AAAAQUKGQVGFGAGPLELFGVKVPLEPGPKATEGGGRALFSGSBCHVPLMGPPGPGLQS 590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                6 PLELPLELELALGPGVQGGPSGGQGSQPQTVFTARQGGPVPPRGVPPGTVGCVFRNGTT 65
                                                                                                                                                                                                                                                                                                                                                                                                                               Length 673;
                                                                                                                                                                                                                                                                                                                                                                                 indels
                                                                                                                                                                                                                                                                                   1.) UNKNOWN_1.
336 MW; 9C53F9ÜADF43FBD9 CRC64;
                                                                                                                                                                                                                                                                                                                                                79.2%; Score 2484; DB 11;
73.4%; Ered. No. 5.1e-170;
Live 25; Mismatches 75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             66 MLDASSFAGI.PGI.QLLDI.SQNQIAS---
                             Interpro: IPR000483; IRR_Cterm.
Interpro: IPR000483; IRR_Nterm.
Interpro: IPR008492; IPR_Out.
Interpro: IPR083491; IPR_IYP.
                                                                                                                                                                                                                                                                                                     7.2356 MW;
                                                                                                                                                                    EMART; SM00181; EGF, 1.
SMART; SM00001; EGF_11ke; 1.
SMART; SM00060; FN3; 1.
SMART; SM00370; LRP; 3.
SMART; SM00320; LRPCT; 1.
SMART; SM00013; LRPCT; 1.
SMART; SM00013; LRPUT; 1.
InterPro: IPR003961; FN_III.
                                                                                                                                                          PRINTS; PROGOTA; DEMPICHEPT
                                                                                                                                                                                                                                                                                                                                                                Bost Local Similarity 73.49 Matches 490; Conservative
                  IsterPro; IPR001611; LRP.
                                                                                                                           Pfam; PF01463; LPRCT; 1
Pfam; PF01462; LRRNT; 1.
                                                                                            Pfam; PF00041; fn3; 1.
Ffam, PF00°60, LPE: 8.
                                                                                                                                                                                                                                                                      SMARI, SMOOKES, LFR_TYL
PROSITE; PS00022; EGF_
                                                                                                                                                                                                                                                                                                   5/3 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      666 VLPAKHYI 673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          591 PLHAKPYI 598
                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                 Query Match
 ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         금
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ÷
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

÷

```
Wang J., Bin L., Jiang N., Li G.;
"Homo Sapiens Erain specific gene (RAG), downregslated is brain tumor,
mRNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    256 LIERNAFDATASLVELNIAHNNISSI,PHD---LFTPLPYLVELHLHHNPWNCDCDILLWIA 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           137 VIPSGAFEYLSKLREIGLRUNDTESIPSYAFNPVPSTMPLDLGELKKLEYISEGAFEGLF 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   197 NIKYINIGMCNIKPMPNITPIJVGLEELEMSGNHFPEIRPGSFHGLSSLKKLWVM-NSQVS 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               236 PWVRESHVTI ASPEETRCHEPPKNAGRIJJELNYADRGCPATTTTATVPTTPPVVPEPTA 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      54 TVGLYVFFNGTTMLDASSFAGLPGLQLLDLSQNQTASTP-----1 PPLILLDLSHNSIL. 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          · · · VEALFLAGIG - - - LOQIDFGLFSPIP 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   179 QURPETGAGLAALQEITVSNISIGALPGLIGGIGPRERELAAA — EMPENGVGRISWPG 23S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 LLLPLLLL-------LALGPGVQGCPSGCQCS-QPQTVFCTARQGTTVPPFVPPP 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17 ILLPEVYLTAQVWILCAAIAAAASAGPON'PSV'S'SNGFSKVVCTPPGLSEVPQ31PSN 75
                                                                                                                                                                                                                                                                                                                     Eukaryota, Metaloga, Chorduta, Pramiata, Vertebrata, Euteleostomi,
Mammalia; Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 10.5%; Score 330; DB 4; Length 653; Best Local Similarity 24.3%; Fied No. 144-15; Matches 159; Cosservitive 82; Mismatches 215; Indels 168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted (JUN-2001) to the EMRL/GenRank/PDRJ databases
EMBL: AF196976; AAG28019 2; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   38159081P6850E37 CRC64;
                                                                                                                     01-MAR-2001 (TrEMRITE). 16 Created)
01-OCT-2001 (TrEMRITe) 18, Last sequence update)
01 PPC-2001 (TrEMRITE). 19. Last andotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BRAIN TUMOR ASSOCIATED PROTEIN NAG14
                                                         PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: IPP003006; 19_MHC.
InterPro: IPP000ARN; IPP.
InterPro: IPP000ARN; IPP.
InterPro: IPP000ARN; IPP.
InterPro: IPP00ARN; IPP.
IPPRO: IPP00ARN; IPP.
IPPRO: IPP00ARN; IPP.
IPPRO: IPPORT: IPP.
IPPRO: IPPORT: IPP.
IPPRO: IPPRO: IPP.
IPPRO: IPPRO: IPP.
IPPRO: IPPRO: IPP.
IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IPPRO: IP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART; SM00013; LRENT; 1.
SMART; SM01464; LRE_TYP; 7.
Immunoglobulin domain.
SEQUENCE 653 AA; 72717 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      108 ALEPGILDTAN------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR003598; Ig_c2.
InterPro, IPR003600, Ig_like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMOONA2 · I PPCT; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR003599; Ig.
InterPro; IPR003598; Ig.
                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                          Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HSSP; P23945; 1XUN.
                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                              O9HBW1;
                                                            Q9HBW1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SMART;
m
RESULT
                                 Q9HBW1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            qq
                                                                                          δŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ζy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D
P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ã
```

```
365 SEGRMA------ELKCRTPPMSSVKWLLPNGTVLSHASRHPRISVLNDGT--LNFSH 413
                                                                                                                                                                   352 HIANDPPROTOTINGESSMADATEPSIMITAFFEREN I GURRANSPOSTRANIQG 411
                                                                                                                                                                                                                       TOMVINABLE RASATINV 441
                                                                                                                                                                                                                                                                           412 SSVQLRFLRLIYRNLSGIBKRLVTLRLBASIAEYIVIQLRFNATESVCVMP------ 462
                                                                                                                                                                                                                                                                                                                               442 STAELNISHYSFFT TVTVETTEISFEDTTRKTKPVPTTSTGYGFAYTTSTTVE 494
                                                                                                                                                                                                                                                                                                                                                                                     463 LGFGRVFESEEACGEAHTFFAVHSNHAFVTQAREGNLFELIAFALAAVLLAALAAVGAAY 522
                                                                                                                                                                                                                                                                                                                                                                                                                     77 TRYINLM:MENNIQMIQMITEWHIHHERVIQUGRNS:RQIEVGAFNGLASLNTLELEDNWLT 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 108 ALEPGILDTAN-------VEALRIAGLG----LOOLDEGLESKIR 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     137 VIPSGAFEYLSKLRELWLPNNPIESIPSYAFNPVPSLMPLDLGFFRK! FYISFGAFFGLF 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           183 -EDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLLAAA---RNPFNCVCPLSWFGPWV 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    255 ENAFEGIASLVELNIAHNNISSLPHE---IFTELEYLVELHIHHNEWNCDCDIIMLAWWL 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    312 PE-YIPTNETSSCHSHAMMESPYLVEVSGASFOGSA-----PFIMLAPPDENISEG 363
                                                         296 I.SSSI,APTWI,SPTAPATEAPSPPSTAPPTVGP----VPQPQDCPPSTCLNGGTCHLGTRH 351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54 FVGLYVFENGITMI PASSFAGI PGLQI LPLSQNQLASLR-----LPRLLLLDLSHNSLL 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23.9 PFSHVTI ASPETITOCHEPPRNACPLLL PLDYAPPOCPALITITATIVDITITPDVVPFPTALSS 298
313 WWI PE-YIPTNSTCCGPCHAPMBMPGPYLVEVLQASFQCSA-----PFIMDAPPDLNI 364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7 LILIPLELLE ------LALGPRVQGPPSGCQCS-QPQTVFCTARQGTTVPRDVPPD 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human).
Eckargata, Mctaroa, Chardata, Staniata, Vertebrata, Butcheostomi;
Mammalia; Butheria; Frimates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                523 OVRMHINGRAAAJIKOJVONJAARIEN ROVKVPTEPOPKATEGGEALPSG 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             indels 13ff,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wang J.;
Thesis (2000), Thengshan Medical University, Guangzhou, China.
FBMBL; A207858; CAC62651.1; -
Signal; Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 649;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIGNAL 1 38 POTENTIAL.
SEQUENCE 649 AA; 72313 MW; 9C11C5ABC7E536CF CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 10.5%, Score 329, DR 4, Best Local Similarity 24.6%; Pred. No. 1.6e-15,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           142 NUMBLEVSENQUEPVPPV19GLPGLPFLPLACTFFFTAQLPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   81, Mishutches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : K.I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL 72.3 KDA PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mutalies 160, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                ||:|
3LTGVY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUBI_Taxiu=9606;
                                                                                                                                                                                                                       414 VLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        096A85;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q95A82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C96A85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ű
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ß
                                                                                                             90
                                                                                                                                                                                                                                                                           \ddot{o}
                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ė
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
564 PMA------ELKCRIPPPMSSVKWILIPNGTVLSHASRHPRISVLNDGT--INFSHVLL 412
                                                                                                                         413 ····SDTGVY----NASAYLNVSTA 440
                                                                                                                                                                415 OLRSERLIYRNISGPDKREVTERPASLARYTVTÖLRPNATYSVCVMP-----LGP 465
                                                                                                                                                                                                          441 ELNTSNYSFFT-----TVTVETTEISPEDITIRKYRPVPITSTGYQPAYTTSTTVLIQT 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VPQPQDCPPSTCLNGGTCHLGTRHHLA 354
                                                                               455 CLOPEGETGLYCESQMOQGTEPSPTPVTPRPPRSLTLGIEPVSPTSLRVGLQRYLQGSSV 414
                                                                                                                                                                                                                                                  466 GPVPEGFERAGGEAHTPPAVHSNHAPVTQAPEGNLPLLIAPALAAVLLAALAAVGAAYCVR 525
                                                                                                                                                                                                                                                                                          494 TKVPK-QVAVPATDITDKMQTSLDEVMKTTK----IIIGCFVAVTLLAAAMLIVFYKLR 547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Isbikawa K., Nagase T., Suyama M., Miyajima N., Tanaka A., Kotani H.,
Nomura N., Ohara O ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62 NOITMLDASSFAGLPGLQLLDLSQNQIASL-----RLPRLLJJDLSHNSTJALEPGILD 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels 317, Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7 LILPLILLLALOPOVOG-CPSGGGGGTVFCTAPAGTTVPR----FVPPFTVGTYVFE 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 LLLVVCGTLALPPDAEPVVPERMINIUHPQHCLVINMGLRVVPKTSSI ESPHIVUTYSEGG - 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Prediction of the coding sequences of unidentified human genes. X.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The complete sequences of 100 new cDNA ciones from brain which can code for large proteins in vitro."; DNA Res. 5.164-174(1948)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rokanyoja: Motazoa, Chordata, Grasiata, Vertebrita, Potelosstomi,
Mammalia: Eutheria, Primates, Catarrhini; Hominidae, Homo.
NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 10.3%, Score 322.5, DB 4; Length 811; Best Local Similarity 22.0%; Prod. No. 6.3e-15; Matches 184; Conservative 62, Mismatches 272, Indels 317,
                                                                                                                                                                                                                                                                                                                                   526 R---GRAMAAAAQDKGQVGPGAGPLELEGVKVPLEPGPKATEGGGEALPSG 573
                                                                                                                                                                                                                                                                                                                                                                           548 KRIQQRSTVTAAR-----TVEIIQVD-EDIPAATSAAATAAPSG 585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           57410766A8P75E78 CPC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             00.50.57
00.50.77
01.NoV-1998 (TrEMBLIG) 08, Last sequence update)
01.NoV-1998 (TrEMBLIG) 17, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RII AA
299 SLAPTWLSPTAPATEAPSPPSTAPPTVGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-98403880; PubMed-9734811;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR001611; LKR.
InterPro; IPR000483; LKR_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR000372; I.RR_Nterm.
InterPro; IPR003591; I.RP_17P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AB014544; BAA31619.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        811 AA; BREGS MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SMART; SMOOGR2; GRECT: 1
SMART; SMOOGR3; ERRIT; 1
SMART; SMOOGR3; ERRIT; 10.
SMART; SMOOGR6; ERRIT; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PROGO19; LEURICHRPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ptam; PP01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF00560; LRR; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE PROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KIAA0644 PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-BRAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             116 T----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SHOUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  075149;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              075139
                                                                                                                                                                                                                                                                                                                                                                                                                                         ^يا
                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                               075149
                                       ŝ
                                                                                 ò
                                                                                                                         Ê
                                                                                                                                                                                                        3
                                                                                                                                                                                                                                                    ŝ
                                                                                                                                                                                                                                                                                            3
                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $ <del>5</del> 5 5 5 5 5 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5
```

```
· ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          129 PLPKILFILYANGNEISPLSFGSFEGLESF VKLRIJGGNALGALPDAVFAPLGNLLIJTHIJES - 188
                                                                                                                                                                                                                                                232 · SWFOPWVRESHVTLASPEETROHFPFKNACRIJJJJJDYAD-·····FG7PATTITAT 282
                                                                                                                                                                                                                                                                     369 GLKRWMGDWHSQGRILTTVF---VQCRHPPALKGKY---LDYLDDQQLQNGSCADPSPSAS 422
                                                                                                                                                                                                                                                                                                                                                         423 LTADRRRÓPLPTAAGBEMTPPAGLAFELPPOPOLGOOGRFLAGVAWIGGAARELVGNRSAL 482
                                                                                                                                                                                                                                                                                                                                                                                        305 -LSPTAPATEAPSPPSTAPPTVGPVPQPQDCPPSTCLNGGTCHLGTRHHLACLCPEGFTG 36 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                               408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             511 LHEKPORCEPTRADPALAEPTPIASPOSAPSPAGEDWOPATEHRIGTEHJERAAQSDOGA 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  571 SLEPLVSDPCDPNKFILCNLTVZAVGADSASVRWAVREHRSPRPLGGARPRILFDRPGQQ 630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     438 -----LPASLAEYTVTOLRPNATYSVCVMPI,GPGRVPEGEEAGGEAHTPPAVHSNHA 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.90 D.-VIPQAPEGN------DIJ TAPAFAAVITAAJ AAVGAAYÇVERGPAMAAAQDIKGO 539
                                                                                                                                      249. FQHI PRIGITSI RGNQI THI APFAFWGI FALRIFI RIBGNRI SQIPTALLEPLHSLEALDI. 308
                                                                                                                                                                                                             309 SGNELSALHPATFGHLGRLRELSLRNNALSALSGDIFAASPALYRLDLEGNGWICDCRLR 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYPOTHETICAL 66.3 KDA PROTEIN.
Homo sapiens (Human).
Eukaryota: Metazoa: Chordata: Craniala: Vortebrata: Fureleostomi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               364 LYCESQMGQGTRESP1PV1PRPPRSLLLG1EPVS-----PTSLRVGLQRY-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 - - KGCARVHVEHKYSTEPELESMOOUVARISCHOOFTIVALSTEAM (1947) 1943
                               117 -----ANVEALRLAGIGLOQLDEGL----FSRLRNLHDLDVSDNQLERV
                                                                                                                                                                           175 --TRIAQLRPEDLAGLAALQELDVSNI SLQALPGIN,SGLIPPRI RITAAARNIPPRIVIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               540 V3P3A3PLELE****SVKVPLE****PADPATEX335A*LPSGSEC****PVPLMYPF**S44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LSTPPKELVTLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (FEM-2001) to the EMBL/ConMank/PDPL databases.
EMBL, BC003578; AAH03578.1; -.
Interpre: [PPG04461; FN_III.
                                                                                                      157 -----PPVIRGLRGLTRLRLAGN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOGSSVOLRSLRLTYRR
                                                                                                                                                                                                                                                                                                                                                                                                                          483 RISERGEGGGPSPSVAA--AAGPAPOSLD----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LRR_Nterm.
LRR_typ.
                                                                                                                                                                                                                                                                                                                   283 VPTTRPVVREPTALSSSLAP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LRR_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IPR003598; I9_c2.
IPR003006; I9_MHC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE: LUNG CARCINOMA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPP001611;
IPR000483;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IPR000372;
IPR003591;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IPP003599;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SECUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interPre;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09BTN0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COBTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q9BTN0
qa
                                   õ
                                                                   q
                                                                                                      ŏ
                                                                                                                                        ď
                                                                                                                                                                           č
                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                   Οý
                                                                                                                                                                                                                                                                                                                                                       Пр
                                                                                                                                                                                                                                                                                                                                                                                          ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \overset{\circ}{\circ}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Öλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            £.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 37
```

```
56 OF YVERN THE PASSPACE PUBLIC SCHOOL FOR STEELED FOR THE SCHOOL 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              386 PRSLTLGIEPVSPTSLRVGLØRYLQGSSVQL------RSLRLTYRNLSGPDKRL 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10.2%, Score 321, DB 4, Lendtl. 623,
23.9%, Pred. No. 5.9e-15;
tive 56; Mismatches 256; Didels 208; Cups
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        123 GESQUERGEWIT BELLTESTANDEAALAAGALERCAETTEEDELEASYNNERGEPREALGREGEN 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   144 HOLEVSENQI PRVPPV:PC:PC:PELAGNTP:AQLEPUSIASIAAIQDLVSULSIQA DER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      183 NTLGLDHNLLASVP-----AG-----AG------AFSRLHKLARLDMTSNRLTT 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       204 LPGDLSGLFPRERELLAAAR-----NPFNCVCPLSWFGPWVRESHVTLASPEE 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    270 FACASPPALGGRYFWAVGEEFFVCEPPVVTHRSPPLAVPAGR-PAALKCRAVGDPEPRVR 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -----TAP-----ATEAPSPPSTAPPTVGPVPQ 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        329 WVSPQGRLLGNSSRARPFNGTLELLVTEPGDGGIFTCIAANAAGEATAAVELTVGPPPP 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                331 PQ-----DCPPSICLNGGICHLGIRHHLACLCPEGFFGLYCESOMGQGTRPSPTPVTPRP 385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  413 AASASAKVADIGPPIDR GVQVTEHGATAALVQWPDQRPIPGIRMYQ1QYN--SSADDII. 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          434 VTLRLPASLAEYTVTQLRPNATYSVCVMPL----GPGRVPEGGEFACGEAHTPPAVHSNHA 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   490 PVTQAREGNLPLLIAPALAAVIJAALAAVGAAYCVRRGR------AMAAAAQDRGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      530 PHAPFI.GGTMITALGGVIVASVI.VFIFVI.LMRYKVHGGOPPGKAKIPAPVSSVGSOTNGA 589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 LLPLLL-LLALGPG------VQGCPSGCOC---sapatvpptapogreva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 ILPLIKCLLPLAPASSPPGSATPSPCPRPCPRPCFRIST FLAVLCPRAGILEVPPPSLDRPAA 6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       251 TRCHPPPKNAGRLLLELDYADFGC-PATTTTATVPTTRPVVREPTALSSSLA----PT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               219 IPPD PLESREPLIARPROSPASALVLAFSGNPLHCNCELVWLPRLAPREDL ----
                                                                                                                                                                                                                           SMART: SMOUGOD, FN3. 1.
SMART: SMOUGOD, FN3. 1.
SMART: SMOUGOD: IG. 1.
SMART: SMOUGOB: IG. 1.
SMART: SMOUGOB: IRRUT, 1.
SMOUGOB: IRRUT, 1.
SEGURICE 628 AA; 66259 MW; FEDCSA5USGAHGSPC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           797 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q9UGS3;
01-MAY-2000 (TrEMRLFel, 13, Greated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PPT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540 VGPGAGPLELEGVKVPLHPGPKA 562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           590 I,GPTPTP-----APPAPEPAA 605
Pfam; PF00041; fn3; 1.
Ptam; PF00047; ig; 1.
Ptam; PF00560; LE9; 6.
Pfam; PF01463; LERCT; 1.
PRINTS: PR00019; LEURICHRPT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 163; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PPEL TMTNAPY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             389 PQLANSISCOPPR -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ©very Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                304 WI,SP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  690683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09UGS3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>a</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          â
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>Q</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ó
```

```
448 ----- KIBSCEGCGLQAVPK3F------ PSDFQLLDLRRNHFPSVP 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ) 10.2%; Sector 421; DB 4; Length 797; Similarity 25.5%; Fred. Mo. 7.96-15; Conservative 47; Mismatches 266; Todels 204; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        49 THVPLVLPLLVLLLAPPARQAAAQRCPQACICDNSPRHVACPYONLTEVPDATPELTQRL 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          58 YVFFNGTIMHASSFANIPCTQHHASQNQT----ASLRIPRIALIDLSHNSLALBP 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            112 GHD-TANVEAFRI ASLGLOGLOFGI PSPORIHDI DVSDRALERVPPV-TRGLRGHRL 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LRLLA 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               288 EEDGLALPGLREILLINGGALQALAPPAPPPPPERTIIN RANGI DTLPPLAGPGLRRUR 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   220 AARBEPROVOTESWEGEWEBSHVILASPIBTROHFPPRINGRILLEIDYADPGTPALT 279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       348 LQGNPLWCGCQAPPLLEWLARAPVP---SPGACQGPPRFPGEALDALPPWDLRCPGDAA 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28.0 TATVPTTREVVREPTALSSSTAPTWLSPTAPATEAPSPPSTAPPTVGPVPQDQOCPESTC 339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         104 OFFFET ---- FFPAVAGPPAPPPGPPGFFP-- ---- AVAPCPRACVCVPES- 447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               340 LNGGTCHLGTRHHLAC------PRPP 386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.24 ----PN----LEOPPKPLYTFPLPASIARYTVTQLPP---NATYSVCVMPLGPGKVDE-G 471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             943 LYLERNRETØVICAALRALPSTJESTHIQPNAVORLAPGPLORTRALRWYYLSGNRITEVS 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 SRVPLLLPLLLLLALGP----GVOGCPSGCQCSQPQT-VFCTARQGTTVPRDVPPDTVGL 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pukaryota, Metazoa, Chordata, Cranjata, Vertebruta, Euteleostomi;
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                               Antrittel (JAN 1791) to the EMFH, Tributhing Latabases EMBL: AL035681; CAB64972.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE 797 AA; 85614 MW; 803247883EAB59AD CRC64;
01-MAY-2000 (TrEMHLTCL. 13, Last sequence update)
101-BE-2001 (TrEMHLTCL. 19, Last annotation update)
10175623.1 (RAVEL LEUGINE RICH PROTEIN) (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         170 KLAGMTRIAQURPUDLAGLAALQHUIVSNESEQALPOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ----LSGLFPR----
                                                                                                                                                                                                                                                      InterPro; IPR000483; LRR_Cterm.
InterPro, IPR000472; LRR_Nterm.
                                                                                                                                                                                                                                                                                          Interfic; IFR063592; LRR_out.
                                                                                                                                                                                                                                                                                                       InterPro; IPR003591; LRE_typ.
Ptam; PF00560; LRR; 18.
                                                                                                                                                                                                                                                                                                                                                 PTAM: PF01453: LRPCT: 2.
PTAM: PF01462: LRRNT: 1.
PRINTS: PROBLY: LEUPICHEPT.
SMAKI: SMO0370: LRK: 8.
                                                                                                                                                                                                                                                                                                                                                                                                                 SMART: SMC0082, LEECT, 2.
SMART: SM00013; LIKRNT: 2.
SMART: SM00369, LEE_TYP, 4.
NON_TER
                                                                                                                                                                                                                                   InterPro; [PR001611; LRR.
                                                                                                                                                                                                                                                                                                                                               Pfam: PF01463; LRECT;
                                                                      Homo sapiens (Human).
                                                                                                                                                               SHOUENCE FROM N.A.
                                                                                                                           NCB1_Tax1D-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bost Lival Sim
Materboo 1842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
 ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              č
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           qn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           É
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δŽ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ċī
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             á
```

```
33:
                             661 LOHLFINSSGLEQICPGAFSG-1GPGLOSFHIQKNOFPALP-----ALPSLSGLE 799
TGABEGNEFELTAFALAAVELAAAAAVGAAYGVKR: 526
                                                                                                                                             -- CPAMAAAAQDPKOQVPPCAPPLRLPGVKVPLEPSPKATEGGGEALPSGSECE 577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sales
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 79. GPPAELHINVGSVHTVYLYGNQLPFFFMNLPKNVPVLHLQFNNLQTISPAALAQLLFLEET, 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ishikawa K., Nagase T., Nakajima D., Seki N., Ohira M., Miyajima N.,
Tanaka A., Kotani H., Nomura N., Ohara O.,
Submittod (OCT-1997) to the PMRL/GenBank/DDRJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20 LITSLGLYSQVSKLAACPSVCRCDR-NEVYCNERSLTSVPLGTPPGSVTVLYTHNNQTNNA 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -----ENCLIMIDASSFAGLECLOLL R1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Graniata; Vertebrata; Buteleostomi;
Mammalia: Putberia: Primatos: Catarthini: Hominidae: Home
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels 182,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lacy S.E., Bonnemann C.G., Buzney E.A., Kunkel L.M.; "Identification of FLRT1, FLRT2, and FLRT3: A Novel Family of Transmembrane Leucine-Rich Repeat Proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-1998 (TFEMBLEEL. 06, Last sequence update)
01-DEC-2001 (TFFMRLFEL. 19, Last annotation update)
8/AA0405 (LFUCINE-PICH PEPPAT TPANSMEMHRANF PROTPIN FIPT2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10.2%) Score 320, DR 4, Tength 660, 22.4%; Pred. No. 7.4c-15,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       660 AA; 74048 MW· 9R15F283R0D5F778 CPC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87, Mismatches 216,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    660 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROSITE: PS00119; PA2_ASF; CHKROWH_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -JUN-1998 (TrEMBLrel, 06, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE 20112755; FubMed-19644439,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Interpro; 198000483; LRR_Cterm.
Interpro; 198000372; LRR_NI erm.
Interpro; 1980013592; LRR_out.
Interpro; 198001351; ERR_typ.
Interpro; 198001311; PLP_A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genomics 62:417-426(1999).

FMBL, AH007865; BAA237011; -

FMBL, AF16965; AR28460.1; -

InterPro: IPR004661; FN_III.

InterPro: IPR001611; LRF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SM00469; LRR_TYP; 1.
472 FEACHEARTPPAVHENBAPV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 140; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF01463; LRRCT; 1.
Pfam; PF01462; LRRNL; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART; SM00082; URRIT; 1.
SMAPT: SM00014: IPRNT; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SM00470; LPR: 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00041; in3; 1.
Pfam; PF00560; LKR; 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KIAA0405 OR FLRTZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_Tax ID :9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FISSUE-BRAIN:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transmembrane
                                                                                                                                                                                                                                                                                  578 V 578
                                                                                                                                                                                                                                                                                                                                                     710 L 710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SECUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     043155;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                043155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
04 4155
                                                                                                                                                ŝ
                                                                                                                                                                                                                â
                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               $\frac{1}{2} \frac{1}{2} \frac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
EGLISELENIMICADVSPHÇLMEVETVIRGLEDILINI, 169
                                                                                                                    199 APONLISLERLIVDGNILINKGIAEGTFSHLTKIKEFSIVRNSLSHPPPPMADTH-LIRL 257
                                                                                                                                                                                 258 YEQDN-OTHIEFF TAPONER/FREE SANGERM PROVIDER OF TARANDMFOR (16
                                                                                                                                                                                                                                          230 PLSWPSFWVFESHVTLASPEETROHTPFKNAMELLEEDYADDWYPATTTTATVFTTRIV 289
                                                                                                                                                                                                                                                                              317 STKWYTEWI KY 19551 - NVRGPMĆOGPFOVRCMAVRFI NMN 1 SCP - - TTTPGLPLFTP - 372
                                                                                                                                                                                                                                                                                                                        290 VPEPTALSSSLAPTWLSPTAPATEAPSPPSTAPPTVGPVPOPOPOPPSTCLNGGTCHLGT (49
                                                                                                                                                                                                                                                                                                                                                          373 ------SPST---ASPITQPPTES-IPNP-----S 492
                                                                                                                                                                                                                                                                                                                                                                                                    320 PHHI ACLOPPGPTGL YOPKSMOOCTPTOOFOOTH ACLOPPOPHKSLITIGHED (95)
                                                                                                                                                                                                                                                                                                                                                                                                                                            -----TPPTTSKLPTIPDWNGRERVIPPISERIQLSIHF 441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  946. USPTSTPVTI QBYLIQUSSVQI PSI PLTYPRI SUPFYPLVTI RUPASLAFY - TVTQLRPNA. 454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179 PLAGNIPLAQLEPHN AGLAALQHUVSALSEQALINGR SGLITREEPLEAAAPHPTRVY 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                455 TYSVCVMPLGPGPVPEGEEA-CGEAHTPPA-----VHSNHAPVTGAF6NLDLLAPA-506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      488 TYRICLVPLDAFNYRAVEDTICSEATTHASYI,NNGSNTASSHEQTTSHSMGS-PFIJ,AGI, 546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
Eukaryota, Metawoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  LETANVEALETA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Waterston R.;
Submitted (PPC-1999) to the PMHG/Speksheb/PDRT databases.
EMBE: AC005013; AAC79690.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      86656 MW: DATTOARE SERFERTC CRO64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goisel C., Antonion B., Angell S.;
"The sequence of Homo sapiens BAC clone GSI-165L15.";
Substitled (CON-199) to the EMEL, School, LDEJ databook
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
· · · · FLILLILLSHNSLIALEFGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WUGSC: H_GS165115.2 PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAY-2000 (TrEMBLrel, 13, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7.87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                507 LAAVLLAALAAVGAAYC---VRRGR 528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      547 ICCAVIEVLVVLLSVPOWBMEKGR 571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interPro, IFR000372, LRR_Rterm.
InterPro, IFR037591, LRR_LTFP.
Pram: PF00560; LRR. 10.
Pram: PF01463; LRRCT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LER_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRINTS: PRO0019; LEURICHRPT.
SMART; SM00082; LRKCT; 1.
SMART; SM00013; LRKNT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SMART: SMOUS69; LFR_TYP; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001611; LRR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IPR000483:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WUGSC:H GS165L15.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    792 AA:
  82 DLSONGIASIRIF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SHOURINGE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCB1_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                          393 RSY----
                                                                                ...GTÖĞTD 8.T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      laterPro,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9UDIT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C30DEL2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q9UDT7
                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   á
                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                        ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ġ7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
```

```
:7:
10.0%: Scare 315, DB 4, Length 792,
21.7%, Ptod. No. 2.1e 14,
Live 60, Mismatches 254, Indels 316, Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    128 SRGSFEGLESTVKLERGGGNALGANFAVEAPLIGNLIYLHUBSNETEFIGKNAFAQUSKUR 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -------TRIAQLEPEDLAGLAA 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       248 HEAPBAPWSTFALPELPLEGNPLSQLPTALLEPHELEALDLSGNELSALHPATFOHLOP 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FCCPATITIATVPTIEPVVREPTALSSSL 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .... LEFTAPATEAPSPESTA 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.22 PLIVSPVP.92/PPRST PSTOHESTRIBLA CPEAFIGLY PRAGOSTERSOTV (AC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FÜR KINDENDERFÜRSTERNDINGEN FÜR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        807 . . . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      510 EPTPTASPGSAPSPAGDPWQPAIKHPLGIEHLEPPAAQSLGGABLPPLVSDPCDENKFILG 559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               570 NITVFAVGADSASVEWAVEEHPSPPPLGSAPFFLLFDFFGLGPFFHFFVYLFESSDSATT 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 493 - CELLIAFALAAVLLAALAAVSAAYGVEFGFAMAAAALK SZVSBSASTELE FF---SVKV-SS4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            678 LLEFALLTVRAZEVEZAZAAWASEWI BEPT BAF B. . . . . . . . . . . FGGAL VHVEHMYS DKE 1721
                                                                                                                                                                                                         | : | : | : | : | : | : | : | : | | : | | | | : : | | | | : : | | : : | | : : | | : : | : | : | : : | : : | : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | : : | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        191 LQELEVSNESIGALFBELSBLEFFFFFFLLAAARNFROVORL · · · · SWEGEWVEESHVTLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      448 TÖLKEMALYSVOVMELGFORVERDERADGEAHTELAVIISNHAF---VIQAFEGN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-001-2000 (TrEMBLrel. 15, Created)
01-007-2000 (TrEMBLrel. 15, Last sequence update)
01-0EC-2001 (TrEMBLrel. 19, Last annotation update)
LEUCINE-RICH PEFEAT IFANSMEMBKANE PECHIN FLETI.
                                                                                                                                                                                                                                                                                                                          RO LLDLSQNQIASL----PEPPLLLIDLSHNSLLALEPSILDT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   555 FEEL - FGERATFGGGEA LPSGSET - - FVPLMGEL 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   728 PLPSMGTGVSADPSGFQSHRPPTTVCALSEADLIEFP 764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           382 TERFFESTRICHENS ····FESTRVGLORY····
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . M.:. . . . . . . . . . . . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            157 ---PPVIRGLRGITRIRIAGN-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              247 SPEETFCHFPPKNAGPLLLELDYAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                482 -- AACEAPSSIE----
Query Match
Best Local Similarity 21.7%
Matches 177; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 AP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    [HZN60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  102N60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FLRT1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ôζ
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 O
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Op
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \ddot{z}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ε̈́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3
                                                                                                                                                                                                                                                                                                                                                                                                 ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ë
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Οÿ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    芒
```

```
ci
Ci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             399 HASATTPOGSLFTERAKRPGLRIPDS-----4NIDYPMAT------432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 130 -----QQTPPRERIENTHETEVSENQTPRVEPVTPSTRGTRIBLELAGVEPTAQEPPF 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     244 TLASFLETECHFFFRNACHLLLELDVADFOCFATTTTATVFTTFFVVFEFTALSSSLAFT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TSEMPETERIGE GOVANAAAKITASN 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     364 WESPTAP----ATEAPSPESTAPPTVGPVP@P@PGPGPFTVINGTCHEGTRHHLACLCP 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            359 EGETGIYOPSAMAQATPPSPTPVTPPPPSCTIGTEPVSPTSLPVALQPPTQGSSVQLRS 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               433 -------GDGA-----KTLAIHVKALTADSIRITWKATLPASFRLSW 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     419 LPLTYPNLSGPPKPLVTLPLPASLARYTVTQLPPNATYSVCVMPLGPGPVPPGEE--AGG 476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . В ЭТТАКМЕНДЕН ГЕЗИКИЛТЕН РОППООЛЬГАЛЬСТВИМИМ ГЕЗИММИ ВЕМУЕТАБА 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STEED! VOODKEPYLITALEEKSTYTTOMYTMEHSNAYVABETPVCA 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAA 521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERNOTEMINASSPACIFICATIFICANOIASLRL----93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       184 D. ACHAN QET IVSNISHQALECILEPPI, FILAAABNE NOVOFISWEGFWESHV
Eukaryota, Metazoa, Chordata, Crāniata, Vertekrata, Euteleostomi,
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44 ----PPLITTI SHNST (ALEPSTLE) ANVEALED -----AGLGL-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels 267,
                                                                                                  Lasy S.E., Bondomann C.S., Bandoy E.A., Engkel L.M.; "Identification of PIPT, PIRT2, and FLPT3; A Nevel Family of Linamendeaus Lasters - Fish Pspear Principles."; pmRI; AP169675; AAP28459 ]; - Interpret | PR003961; PLIII.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 21.5%; Pred. No. 3.6e-14;
Matches 140, Conservative 91, Miscatches 234, Indels 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              477 EAHTPPAVHSNHAPVTQARE-----GNLPL--LIAPALAAV-LLAALAAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE 674 AA; 74088 MW; CBUIS95784316B77 CRC64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24 - TESSOCIA SOLVITANI SANDOTANDENPROPRAPARA (A. 1920)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROSITE; PS00119; PA2_ASP; UNKNOWN_1.
                                                                                        MEDLINE=20112755; PubMed-10644439;
                                                                                                                                                                                                                                                        InterPro, IPROCA27, IER_Nterm.
InterPro: IPPOGRSGS, IPP_out.
InterPro; IPPOGRSGS, IRR_LYP.
InterPro; IPRO01211; PLP_A2.
                                                                                                                                                                                                                   InterPro; IPP001611, LFF.
InterPro; IPR000483; LRR_Cterm.
                                                                                                                                                                                                                                                                                                                             Fran, PF90341, fn3, 1.
Pfan, PF00540, LRR; 8.
Fran, PF01463, LEME; 1.
Pfan, PF01463, LEMENT; 1.
PRINTS, PF00019; LEUFICHPPT, SM00770; LEPF 1.
SMART: SM000770; LRR; 1.
SMART: SM00013; LRPRT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                    NCB1_Tax1P=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ARGULETORISHAVG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ΩF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
   17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ÷7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \exists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SX
CX
```

```
Ė
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE-20277482; PubMed=10819331;
MEDLINE-20277482; PubMed=10819331;
A Engage T , K Kano, E, ishikawa K., Hitusawa M., Chata G.;
A Hordiction of the coding sequences of unidentified human genes.XVII.The complete sequences of 100 new cDNA clones from brain complete complete sequences of 100 new cDNA clones from brain complete complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro.";
LNA Res. 7:147-156(2000).
HANDLE ABOAGOG: BAASSSG31; -.
HIGEPTO: IPROMOSE; FN_III.
HIGEPTO: IPROMOSE; ILRECTERM
HIGERTO: IPROMOSE; IRRECTERM
HIG
522 YCVREGRAMAAAAQDKCQVGPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSBCFVPLM 581
                                                                                                                                                                       64 SIPTGIPEDATTLYLQNNQI-----NNAGIESDJKNLJKVERIYLYHNSLDEFFINDPK 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         78 -LOLIDISONOTASI.----PLPPILILDISHNSI.--LAFP9TLDTANVFALPLAGIS 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           118 YVKELHLØENNIRTITYDSLSKIPYLEELHLDDNSVSAVSIEEGAFROSNY -- LRULFUS 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match 9.98, Shore 309, DE 4, Langth 662, Best Local Similarity 22.39, Prod Nh 4.6e-14, Matches 146, Conscriptive 97, Mishatches 219, Indeis 192, Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -- LLLALGP - GVÇGTPSGTÇTSQPQTVFTTARQGT 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 CIKTSTLLTMISAAWSIFLIGTKIGLFLQVAPLSVWAKSCPSV; P. - DAGH 19° NDPF1T BA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bukaryota; Motioga; Cloridata, Cianiata, Vertubiata, Euteloustomi,
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 129 LOOT DEGLESPLENTHDINGSPNQLEPV - PPVTEGLEGLEFLELAGN - - - - -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQÜFINCE 662 AA: 74459 MW: PF7000P689P4429 0P064;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 F TVVPPDVPPTVVTLYVPENCTTMLDASSPACTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00119; PA2_ASP; UNKNOWN_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PPT;
                                                                                                                                                                    582 ELLTPERAYNPGSPEK-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-0CT-2000 (TEMBLED 15, 01-0CT-2000 (TEMBLED, 15, 01-DEC-200) (TEMBLED, 19,
                                                                                                                                                                                                                                                                                                     613 EIRGPGLOMLPINPYRAK 630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KIAA1469 PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                   582 GFPGPGLQ----SPLHAK 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SM00013; LRRNT; 1.
SM00369; LRRTTP; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PPELLIMINAPY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plam, PP01463, LRRCT; 1.
Plam, PF01462, LRRNT; 1.
SMART; SM00060; FN3; 1.
SMART: SMON370; LRP: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 CSRVPULLPLL ....-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ptam; PF00560; LRR; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCB1_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NON TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q9P259;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               69P259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMAPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SMART;
                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9P259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ST ET ET
                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              οŽ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5
```

```
176 RNHLSTIPWGLPRITEELFLDDNRISTISSPSLLGLISLKRLV14 JUNIONBELGURVFF 235
                                     ------ LAALQFLDVSNLS 200
                                                               236 NEVNETELSEUPINSLTAAPVNIPĞINLERIXLQUNETNEVPENAFSYLRQUYRIDMSNIN 295
                                                                                                          201 IQALPGPLSCLEPPI.PLI AAAPNPFNTVCP! SWPGPWVPESHVTLASPELTFCHFPPKNA 260
                                                                                                                               261 GRILLELDYADFGCPATTTTATVPTTRPVVREPTALSSSLAPTWLSPTAPATEAPSPPST 320
                                                                                                                                                                                                                 355 GMAIKDLNAELFDCKDSGIVSTIQIT-----TAIPNTVYPAGGGWPAPVTKQPD---- 403
                                                                                                                                                                                                                                                     321 APPTVGFVZQFQFGPPSTGFNGGTCHLGTRHHLACLCPFGFTGLYCESQMGQGTRPSPTP 380
                                                                                                                                                                                                                                                                                        OTTCSFS 420
                                                                                                                                                                                                                                                                                                                          381 VTPPPPRSETLATEPVSPISERVALQRYLQGSSSVQLPSLPFOTYRNLSGP-DKRLVTLRLP 439
                                                                                                                                                                                                                                                                                                                                                421 -----RKTITITVKSVTSDT1HISWKLALPMTALRLSWLKLGHSPAFGS1TFT1VT---- 471
                                                                                                                                                                                                                                                                                                                                                                                                 440 ASCAETTIVIQLAFNATYSVCVMILLSEGEVEROLF ACCPAHTFFAVHSNHADVT---- 492
                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metauda, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        493 QARE----GNLPL--LIAPALAAVLLAALAAVGAAYGVRRGRAMAA-AAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lary S.E., Bennesann C.S., Ruthey F.A., Fockel I H.; "Identification of Futtl, PLRT2, and FLRT3: A Novel Family of Genomics 62:417 426(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-0CT-2000 (TrEMBLrel. 15, Created)
01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-0CT-2000 (TrEMBLrel. 19, Last annotation apdate)
IEUCINE-RICH REPEAT TRANSMEMBRANE PROTEIN FIRT3 (DJ581113.1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (BEC-2000) to the EMBL/Genbank/EDBJ databases. BMBL, ALISO677, AAF 24461.1; -... EMBL, ALISO57, CAB8687.1; -... InterPro, 1860.963; PN_III. InterPro, 1860.963; PN_III.
                                                                                                                                                                                                                                                                                        404 -----IKNPK------LTKDH-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PKT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-20112755; Pubmed 10644439;
                                     175 ----TRIAQLR-----PEDLAG--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IPR000372; LMR_Nterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PPRODUMA83; LPP_Cterm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPPOO 4992; LPP_out.
InterPro; IPPO03591; LRP_LYP.
InterPro; IPPO01211; PLP_A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SM00082; LRRCT; 1.
SM00013; LRRNT; 1.
SM00369; LRR_TYP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF01463; LRRCT; 1.
Pfam; PF01462; LRRNT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pfam; PF00041; fn3; 1.
Pram; PF00560; LRP; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SMART; SM00060; FN3; 1.
SMART; SM00370; LRR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SHOUFNCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SHOUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heath P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     00ZN60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09NZ00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FLRT3
                                                                                                                                                                               ŏλ
                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                   qq
                                                                                                          3
                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δλ
```

SMART;

24;

```
248 NIEKTYLODNETWEVPTNAFSYLFOLYELEMSBARDSALFOOTFOLOLARIOOLISCHAFW 30?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUB-EMBRYO, AND MAINLY HEAD:
Isogai T., Ota T., Hayashi K., Suqiyama T., Otsuki T., Suzuki Y.,
Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H.,
Wagatsuma M., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M.,
                                                                                                                                                                                                                                                                                                                         96 LLLLDLSHNSL--LALEPGILDTANVEALRLAGLGQQLDEGLESRIRNLHDLDVSDNQL 153
                                                                                                                                                                                                                                                                                                                                                                                                                       130 LEELHLDDNSVSAVSIEEGAFRDSNY--IRLEELSKNHLSTIFWGLPRTIEEERLDDNRI 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            154 ERV-PPVIRGI PGLTRLPLAGN-----TRIAQLR-----PEDLAG- 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         188 STISSPSLQGLTSLKRLVLDGNILLNNHGLGDKVFFNLVNLTELSLANVKNSLTAAPVNLPGT 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    188 -----SGLPPRLPLIAAARNPF 225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             226 NCVCPLSWFGFWVRESHVTLASPEETRCHFPPKNAGRILLHIDYADFGCPATTTTATVPT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      308 YCCCKMKWVRDWIGSLEVEV-NVPTLMCQAFEKVESMALKELHAELL USKDSGIVSTIQT 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      286 TRPVVREFTALSSSLAFTW.SPTAPATEAPSPPSTAPPTVGPVPQFQFGPPSTCLNGGTC 345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 346 HIGTRHUACLCPEGFTGLACESQMGQGTRPSPTPVTPRPPRSIGIGIEPVSPTSLRVGL 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          396 -- LITKDH--------QTTGSPS------RKTITITVKSVTSDTIHISW 427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       406 GPYLGSSSVQLESLELTYENLSCP-DKRLVTLRLPASLAEYTVTGLKFNATYSVCVMPLG 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                428 KLALPMTALFLSWLKLGHSPAFGSITETIVI----GERSEYLVTALEPDSPYKVCMVPME 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             465 PGRVPEGEE--ACGEAHTPPAVHSNHAPVT----QARE----GNLPL--LIAPALAAVL 511
                                                                                                                                                              Capit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13 LLLALGP---GVQGCPSGCQCSQPQTVFCTARQGTTVPRDVPDJTVGLYVFENGITMLDA 69
                                                                                                                                                                                                                                               17 LELQVAPLSVMAKSCPSVCRC-DAGFTYCNDRFLTSTPTGTPEDATTLYLQNNQI---- 70
                                                                                                                                                                                                                                                                                          70 SSFAGLPG------RLPR 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   367 T-----TAIPNTVYPAQGQWPAPVTKQPD-----IKNPK-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Cramiata, Vertebrata, Euteleostomi,
                                                                                                              Ouery Match
Best Local Similarity 22,7%; Pred No F 20-14;
Matches 143; Conservative 94, Mismatches 214, induls 178,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC:2001 (ITEMBLEEL. 19, Created)
01-DEC-2001 (ITEMBLEEL. 19, Last sequence update)
01-DEC-2001 (ITEMBLEEL. 19, Last annotation update)
CDNA FLJ14391 FIS, CLONE HEMMAI003077, WEAKLY SIMILAR FO SLIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                        640 AA: 73003 MW; GEPFSESCASIRIPOR CROSA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           512 LAALAAVGAAYCVRRGRAMAA-AAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      542 IALLALV-CWYVHRNGSLFSRNGAYSKGR 569
PROSITE: PS00119; PA2_ASP; UNKNOWN_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROTEIN PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCB1_Tax1D=9606;
                       Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            096KB1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q96KB1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q96KB1
    S X S
                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ó
```

```
Lakabashi M., Chiba Y., Ishida S., Murakawa K., ono Y., Takiguchi S., Watanade S., Khada K., Matahami K., Ishii S., Essai J., Saito K., Yuntanade S., Wakamate A., Nakamata T., Nagabai K., Masaho Y., Ninomiya K., Iwayanaqi Y., "Ninomiya K., Iwayanaqi Y., "Ninomiya K., Iwayanaqi T., "Ninomiya Y., 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96 ELELDESHINSE - LALLFGILLFTARVEALREAGEGLQQEFINGLFSRERNIHDEDVSDNQL 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           308 PCGCKMKWVRDWLQSL-PVKV-NVKGLMCQAPEKVMGMATKDLANEDEDCKDSGTVSTIOT 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  286 TRPVVREPTALSSSLAPT---WLSPTAPATEAPSPPSTAPPTVGPVPQPQFQPPSTCLNC 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ς.
Γ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          248 NERFLYLÇENBINEVERNAFSYLEÇLYRIEMSHAMLERIAÇGIFTTIFINITÇLILERNEW 397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   226 NCVCPLSWFGPWVRESHVTLASPEETRCHEPPRNAGRIJJJRADFGCPATTTATVPT 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   44. GTCHLGTREHLACLCPEGFTGLYCESQMGQGTRPSPTPVTPRPPRSLITGLEPVSPISLR 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---KDQQTTGGPg-----bKTTTTVKSVISDIIH 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  403 VGLQRYLQGSSVQLPSLRLTYPN) SGP-PKPLVTLKLPASLAFYTVTQLRPNATYSVCVM 461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REGNEPL -- LIAPALA 508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           71 -NNAGIPSDLKMILKVEPPPTREFPTNLPRYVEELBEGENNERTTYPESLSKIFY 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 PMETSNLYLFDETPVCLETETAPLRMYN--PTTTLNREQEQEQEPYKNPNLPLAATIGGAVA 548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        93: Mismatches 216; Indels 184; Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13 LITALGP---GVQGCPSGCQCSQPQTVPCTAPQGTTVPPNVPPNVG1YVFFNGITMEDA 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -------RI.PR 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         54 ERV-PPVIRGIRGITELELAGN------TRIAQLE-----PEDLAG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  188 STISSPSLØGLISLKKLVLFGOLLINNHGLGDKVFPNLVLTELSLVRNSLIAAPVNLPGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LAALOPI DVSNI SLOALIKDI SCLITRIRLIAAARNPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota: Metazoa; Chordata; Craniata; Vertebratu; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    367 T-----TAIPNTVYPAQCQWPAPVTRQPDIKNPRLT------TAIPNTVPAQCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 9.8%; Score 308; DR 4; Length 649;
Best Local Similarity 22.0%; Pred. No. 5.3e-14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-bEC-2001 (TrEMBLrel. 19, Created)
01-bEC-2001 (TrEMBLrel. 19, Last sequence update)
01-bEC-2001 (TrEMBLrel. 19, Last annotation update)
cibA PL/14788 P1S, CLONE NT2MP4000925, WEACHY SIMILAR TO
                                                                                                                                                                                                                                                                                                             Submitted (MAY 2501) to the LABE, historie is latitudes s.
EMBC; AK027297; BABS5033.1; -.
SLADURCE. 643 AA, 72994 MW, BESB57133192F08 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PKT; 623 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         509 AVIJJAAIJAAVGAAYCVRRGRAMAA-AAQDKGQ 539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5.49 LVTIALLALV-CWYVHRNGSLFSRNCAYSKGR 559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          462 PLGPGRVPEGEE--ACGEARTPPAVHSNHAPVTQA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 139; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         70 SSFAGLPG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FIBROMODULIN PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCB1_Tax1D=9606;
lakahashi M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Çuery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                096K 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             096K39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                    SERRESER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AC SOC SEE NAME OF STREET ```

```
56 ILKVERIYLAHNSIDEFPTNIPKYVKELHIQENNIRTITYPSISKIPYLEIHLDDNSVS 115
 107 - LALPPOLIDTANVEALPLACISCOGLIPECLESPIENT HELFVSFNGLEEV-14-V1463.4-164
 234 - NPVPPNAFSYI POLYPLIMSNINILSNI POGTFFITLINITTOLLLENNEWPOOCKMKWVFDW-293
 475 CGEAHTPPAVHSNHAPVT----QAPE----GNLPL--LIAPALAAVLLAALAAVGAAYC 523
 Isoqai T., Ota T. Hayashi P., Sugiyama T., Otsuki T., Suruki Y., Nishikawa Y., Nabikawa Y., Nabikawa Y., Nabikawa T., Nabikawa Y., Nabikawa T., Nabikawa Y., Nabikawa Y., Nabikawa Y., Nabikawa Y., Nabika H. Ishi S. Pawai Y. Sajita F., Yumumoto I., Wakaratsu A. Nabamora Y., Nagabari K., Masabo Y., Sasaki N.; "Nabo human cDNA sequencing project "." Submitted (MAY 2001) to the EMMI/Ornwank/PDRJ databases.
 ----LQLLDLSQNQLASL-----RLPRLLLDLSHNSL- 106
 165 GLTRL/RLAGN------TPLAGLIP-----PFDLAG----- 187
 LAALQELDVSNISIQALFODISCLFFRIHJAAARNPFNTVTPISWFTFW 237
 238 VPFSHVTLASPPETPCHPPPKNAGFLLLELEYADFJGFALITHAIVHTIREVVREFTALS 297
 294 LÖSLEVKV-NVRGLMGGAPEKVRAMATKIJINAELFINIKLISGTVSTTQTT-----TATP 445
 298 SSLAPTWLSPTAPATEAPSPPSTAPPTVGPVPQDQDQDGTGTSTGTGTTHLGTTFHHLACLC 357
 358 PEGETGI YGESQMGGATPPSPTPVTPPPPPSITIGIFPVSPTSLPVGLQBYLQGSSVQLP 417
 375 -----QTTGSPS----PKTTTTTVKSVTSDTHISWKLALPMTALRLS 413
 414 MEKLCHSPAFGSITETIVT----GFRSEYIVTALFPRSPYKVCMVPMETSNLYLFREIPV 469
 Garis
 418 SLPI TYPNI-SCP-DKPLVTI PI PASI AFYTVTQI PPNATYSVCVMPLGPGRVPEGEE--A 474
 S KSCPSVCRC-DAGELYCNDRELTSIPTIGIPEDATTIYLONGI-----NNAGIPSDLKN 55
 22 GOOPSGOQOSQPQTVFOTARROTTVPRPVPPPTVGLYVPENGITMLDASSPAGLPG--- 77
 Eukaryota, Metazoō, Ćĥordata, Craniata; Vettebrata, Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
NCBL_Tax1D-9615;
[1]
 indels 175,
 Guery Match 6 %*. Score dit 5; 108 4; Length 5.23; Bost Local Statlarity 22.78, Pred. No. 5.40-11, Matches 140; Consemptine 93; Mismatches 209, Indels 175;
 623 AA: 70245 MW: PRRABGETOPIDTAP4 OPC64;
 19, Last annotation update)
 last sequence update)
 677 AA.
 01, Created)
 PRT;
 70
 524 VERCRAMAA AAQDKGG 539
 527 HPNGSLFSPNCAYSKGP 543
 PRELIMINARY;
 01-NOV-1996 (TrEMBLrel.
01-AUG-1998 (TrEMBLrel
 GLYCOPROTEIN 1B.
Canis familiaris (Dog).
 01-DEC-2001 (TrEMBLrel.
SEQUENCE FROM N.A.
 SPONENCE
 028256;
 028256
 RESULT 15
 3
 ŝ
 £
 9
 9
 90
 ò
 qq
 9
 ò
 5
 õ
 ò
 a
 ŝ
 5
```

```
216 TPLH-----GNPWSCPCPILYLAPWIPINSNNVYIWPECVPAKATTPNVPCVPCVNWKNV 270
 158 P-VI BGLAGLTRI PLAGNI PLAQI PPPIN AGLAALQBI DVSNI SLQATP----CHUSGLE 212
 157 PRELAPTAGERKENLANN-PLIELPPGFELEGEGELFTLYLOGNWEPTVPKGPFGPLIEPP 215
 271 PVHTYQGEDGPSPMDGG----EMDYDNYDDEDEKLPGVEAPATRAVVSFSTHTKAHTTHW 326
 284 -----PTTRPVVPEPTAL,SSSI,APTW1, -405
 406 SPTAPATEAPSPPSTAPPTVPVPQPQPGPPSTFINGTCHLGTRHHTACLCPFGETGLY 365
 AAK TESQMOQCTBPSPTPVTPP8PP8LTLOTRPVSPTSLPVGQQPYLQQSSVQLPSLPTPYPN 425
 - TPOPATTPTTPOP 464
 indete 2005 daps
 48 T.L.P.I.SHNST.I ALPPATI DTANVEAL PLACI CLOPE PEPLKNLHDLDVSDNOLERVP 157
 CLSHIJHLLYIJKUNKINTIJP 156
 327 SILYFTFAYFDHQMAYLSSTLELTEKÇTMFPSTLGPIMFTTTP - EPTTFPFTLEPT T 382
 VPEC 471
 3 LLLWLLLLAPLCPPPEFICEVSKVTSQVE-VNCDNKGLKALPPG1 PGDTAJ1JHJAENPLGA 61
 Ediny D. Merieck P.A. Falss S.A. Waritier D.C., Mentacharry P.R., "Pleating and expression of confer glycopratein Healpha.";
"Pleating and expression of confer glycopratein Healpha.";
Thromb. Hadomost. #21327-1333(1999).
EMMI. HAGOMOST. #221327-1333(1999).
Interpres | IPPROBABILITY. | PROBABILITY. |
Interpres | IPPROBABILITY. | IPP. |
Interpres | IPPROBABILITY. | IPP. |
Interpres | IPPROBABILITY. | IPP. |
Interpres | IPPROBABILITY. |
INTERPRES | IPP. |
 213 PELELLAAAENPENGVGPLSWPGPWVR-------ESHVTLASPEETFG----HF
 7 HILLEHLIARISPGVQGPSGCQCSQFVFCFARQGTTVPRDVPPPTVGLYVFFN---
 9.5%; Score 299.5; PR 6; Length 677;
24.2%; Pred. No. 2.3e-13;
tyo (0) Mismatches 180; indels 221
 256 P-----PKNAGRLLLELDYADF------GCPATTTATV----
 SM00369; LRK_TYP; 3.
SE 677 AA; 74132 MW; 3798182C4D7F01C0 CRC64;
 425 -----pttpSttpqtpQpattpQpattpt------
 120 TLDASENELVALSFOILD
SEQUENCE FROM N.A. MEDLINE 20011097; Pubmed 19544923;
 Query Match
Best Local Similarity 24.2%;
Matches 150; consernative 7
 472 EEACCEAHTPPAVHSNHAP 490
 517 TSPCTTSEYPIVPSLVHLP 535
 Pfam, PF91463, LERGT, 1.
Pfam; PF01462, LERRIT, 1.
SMAPT; SM00370; LRP; 2.
 SMART; SMCCO82; LRECT; 1.
SMART; SMCCO13; LFPNT; 1.
 SEQUENCE
 SMART
ŝ
 ŝ
 ٢
 6
 5
 3
 2
 3
 Ĉ7
 4.
 Ç,
 9
 \tilde{\circ}
 8
 21
 7
 č
 q
 Ž
```

Scarch completed: September 17, 2002, 09:54:24 Job time: 260 sec

